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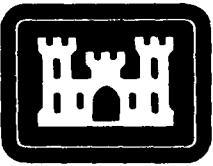
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WATERBORNE COMMERCE  
OF THE UNITED STATES

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*Calendar Year 1986*

PART 4  
WATERWAYS AND HARBORS  
PACIFIC COAST, ALASKA AND HAWAII



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# WATERBORNE COMMERCE OF THE UNITED STATES

## CALENDAR YEAR 1986

### PART 4

#### WATERWAYS AND HARBORS PACIFIC COAST, ALASKA AND HAWAII



COMPILED UNDER THE SUPERVISION OF  
THE WATER RESOURCES SUPPORT CENTER  
U.S. ARMY CORPS OF ENGINEERS  
FORT BELVOIR, VIRGINIA

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## INTRODUCTION

This publication is one of a series containing statistics on the waterborne commerce of the United States during the calendar year 1986. Four of these publications present detailed data on the movements of commodities and vessels at the ports and harbors and on the waterways and canals of the United States, the Commonwealth of Puerto Rico, and the Virgin Islands, and the fifth contains summary data of the country as a whole. The numbers of the publications and the areas covered are:

### Area

- Part 1. Atlantic Coast
- Part 2. Gulf Coast, Mississippi River System, and Antilles
- Part 3. Great Lakes
- Part 4. Pacific Coast, Alaska, and Hawaii
- Part 5. Waterborne Commerce of the United States (National Summaries)

Both the foreign and domestic commerce moved on United States waters are included. Data on the foreign commerce were supplied to the Corps of Engineers by the Bureau of the Census; data for the compilation of the domestic statistics were collected by the several offices of the Corps of Engineers, Department of the Army, in compliance with various acts of Congress. The principal provision governing the collection of these data is included in the River and Harbor Act of September 22, 1922:

Section 11. That owners, agents, masters, and clerks of vessels and other craft plying upon the navigable waters of the United States, and all individuals and corporations engaged in transporting their own goods upon the navigable waters of the United States, shall furnish such statements relative to vessels, passengers, freight and tonnage as may be required by the Secretary of War: Provided, that this provision shall not apply to those rafting logs, except upon a direct request upon the owner to furnish specific information.

That every person or persons offending against the provisions of this section, shall for each and every offense, be liable to a fine of \$100 or imprisonment not exceeding two months, to be enforced in any district court in the United States within whose territorial jurisdiction such offense may have been committed.

While the information as now collected and compiled is designed to meet the administrative requirements of the Department of the Army in connection with the duties assigned by Congress, it also provides useful data for other governmental departments, commercial and shipping concerns, and others interested in transportation.

Waterborne traffic movements were reported to the Corps of Engineers by all vessel operators of record on prescribed forms approved by the Office of Management and Budget under the Federal Reports Act of 1942 for those movements of their vessels which were classified as domestic traffic; namely, between United States ports, continental and noncontiguous, and on the island rivers, canals, and connecting channels of the United States, Puerto Rico, and the Virgin Islands, excluding the Panama Canal. The reports were generally submitted on the basis of a vessel movement completed in one direction and, for movements with cargo, the origin and destination of the water transportation of each individual commodity. In compiling the data, the entire movement was included in the year in which the movement was completed even though the shipment may have originated in the preceding year, except that, beginning with calendar year 1961 statistics, a cutoff date of 28 February was established for the processing of reports from vessel operators covering the prior year's completed movements. Hence, reports of movements completed in 1986 but not reported to the Corps of Engineers until after 28 February 1987 will be included in the next year's, 1987, statistics rather than in this publication, while reports of movements completed in 1985 but reported to the Corps after 28 February 1986 are included in this publication.

Sponsored by the Office of Statistical Policy, Office of Management and Budget, a uniform system of classification for freight was developed with cooperation of all Federal agencies engaged in collecting and compiling data on shipping. This classification, the Commodity Classification for Domestic Waterborne Commerce, is used for data on the foreign and domestic commerce presented in these publications, although some minor modifications exist in the foreign data which were necessitated by Bureau of the Census policies and procedures.

The domestic traffic includes all commercial movements between points in the United States, Puerto Rico, and the Virgin Islands. Traffic with the Panama Canal Zone is treated as foreign commerce. Cargo moved for the military agencies in commercial vessels is reported as ordinary commercial cargo; military cargo moved in Department of Defense vessels is omitted from these statistics.

All movements between the United States and foreign countries and between Puerto Rico and Virgin Islands, U.S.A., and foreign countries are classified as foreign traffic. Trade between United States territories and possessions, i.e. Guam, Wake, American Samoa, etc., and foreign countries is excluded.

These data are furnished to the Corps of Engineers by the Bureau of the Census under a working arrangement sponsored by the Office of Statistical Policy, Office of Management and Budget. The data are confined to movements by water, and are reconcilable with published reports of the Bureau of the Census. Shipments of domestic merchandise and re-exports of foreign merchandise are termed exports. The imports include inbound merchandise for direct consumption and entries into custom bonded storage and manufacturing warehouses. Intrastate merchandise, defined by the Bureau of the Census as merchandise coming into the United States from a foreign country and shipped to a foreign country without having been entered as an import, is treated as an import when unloaded from a vessel and as an export when loaded on a vessel. Export shipments for use of the United States Armed Forces abroad are excluded from the statistics as are import shipments on Department of Defense owned and operated vessels. Foreign trade data of territories and possessions other than Puerto Rico and the Virgin Islands, which are under the jurisdiction of the Department of the Interior, were not furnished to the Corps of Engineers by the Bureau of the Census and are excluded from the statistics of both agencies.

Export shipments under the various foreign aid programs on Department of Defense operated vessels, either American Flag commercial vessels under time, voyage, or space charter or vessels owned and operated by the Department of Defense, and various items (listed by the Census) which affect national security are not published in terms of the individual commodities shipped. Instead, a lump-sum tonnage figure is compiled and appears in these tables as commodity code 9999, "Department of Defense Controlled Cargo and Special Category Items."

The 1986 statistics on waterborne exports of domestic and foreign merchandise and non-Department of Defense shipments of Special Category commodities reflect fully compiled data for shipments to Canada individually valued at \$2,000 and over combined with estimated data for shipments valued \$251-\$1,999, based on a 10-percent sample of such shipments. For countries other than Canada, the export statistics reflect fully compiled data for shipments valued \$1,000 and over combined with estimated data for shipments valued \$251-\$999, based on a 50-percent sample of such shipments. Data on export shipments valued under \$251 are excluded from this report.

Import statistics for 1986 exclude data on shipments valued \$250 and under reported on both formal and informal entries. Informal entries generally contain items valued not more than \$250.

Foreign trade data furnished by Census are based on reports processed for Census' monthly data January through December and represent statistical year rather than calendar year data.

## VIII Waterborne Commerce of the United States, 1986

The figures on ton-miles are computed by the Corps of Engineers; each ton-mile figure reflects only the distance each ton of cargo, foreign or domestic, moved on the waterway described in the section for which the figure is reported. The summary of ton-miles for the entire United States contained in Part 5 includes movements on the inland waterways and Great Lakes System only, cargoes, foreign and domestic, of deep-sea vessels are included only for that portion of the voyage that occurred in inland rivers, canals, or connecting channels—neither the carriage on the oceans nor the Gulf of Mexico nor the tonnage moved among the territories and possessions, "Intra-territory Traffic," is taken into account.

Trips of vessels at ports are reported as inbound, which represents the number of entrances or arrivals, and outbound, which represents the number of clearances or departures. On the waterways, the number of trips signifies the number of individual vessel movements on the waterway in each direction; a single trip is counted for each vessel using the waterway in a continuous direction regardless of the number of stops made on the waterway. Some towboat trips and empty barge moves are sampled to expedite processing and reduce cost. Even with sampling; however, the number of towboat trips are calculated from better than 70-percent of the total number of towboat moves reported and the number of barge trips are derived from better than 85-percent of the total number of barge moves reported. The number of trips reported includes vessels engaged in foreign trade, which are furnished by the Bureau of the Census based on Customs Entrance and Clearance forms. Complete information on trips of vessels, ferry and other, not required to clear formally was not furnished by the Bureau of Customs beginning with data for the year 1969. Adjustments are made to the trip counts, if necessary, to more accurately reflect actual traffic patterns (e.g. inbound vs. outbound trip counts).

Customs regulations with regard to entrance and clearance do not provide all data as required by the Corps of Engineers where supplementary information could be obtained, adjustments were made by the Corps of Engineers to reflect the true volume of vessel movements in and out of channels and harbors reported in these publications.

Excluding from these figures are United States Army and Navy vessels, such as Army transports and Navy tankers entering or clearing without commercial cargo, and foreign military and naval craft.

Some duplication may exist in the number of vessel trips at ports for those American flag vessels engaging both foreign and domestic trade on the same voyage. Since movements of vessels and cargo between two United States ports are reported to the Corps of Engineers, and entrance and clearance must be obtained from Customs at each port of call while foreign cargoes are aboard, those vessels engaged in combined foreign and domestic movements may be reported twice.

Draft, in all cases, is the distance from water level to the lowest point of the vessel under-water and is measured when the vessel is completely stopped — either tied to a dock or at anchor. The draft under way — while the vessel is moving — is dependent on many factors, such as speed of the vessel and depth and width of the channel, and varies from channel to channel. Channel depth of at least 3 feet more than the draft of a vessel at dock is required where vessels must be operated at slow speed. Channel depth of 5 feet more than the draft of a vessel at dock is required in channels where vessels can be operated at more efficient and economical speeds.

Passenger arrivals and departures on the various waterways and channels and at ports include passengers engaged in foreign travel. While the Immigration and Naturalization Service, Department of Justice, no longer provides foreign passenger data to the Waterborne Commerce Statistics Center, foreign passengers traveling between Canada and the United States in the Great Lakes and Alaska areas are reported to the Corps of Engineers from other sources available to the Corps. In addition, the New England Division has been able to obtain foreign passenger data for calendar year 1986 in Bar Harbor, Lubec, Eastport and Portland Harbor.

Foreign data on various connecting channels having no terminal facilities, such as Cape Cod Canal, and Chesapeake and Delaware Canal, are not available from Census records. Hence, the Corps of Engineers developed such data from canal records.

SECTION 1 of this publication presents comparative statements of commerce for preceding years and the detailed freight traffic for calendar year 1986 of harbors and waterways in the area covered by this part of the statistics series.

SECTION 2 presents data on the movements of vessels at the harbors and on the waterways included in the first section.

### TERMS FOR KIND OF TRAFFIC

The terms applied to the kinds of traffic as found in these publications are explained as follows:

#### Pertaining to Ports

**Imports and Exports.** These terms apply to traffic between the United States and foreign ports, including the Canal Zone. Traffic of the U.S. Great Lakes ports with Canada is supplemented by the term "Canadian" to differentiate it from overseas traffic.

**Coastwise Receipts and Shipments.** These terms apply to domestic traffic receiving a carriage over the ocean, or the Gulf of Mexico, e.g. New Orleans to Baltimore, New York to Puerto Rico, San Francisco to Hawaii, or Puerto Rico to Hawaii. Traffic between Great Lakes ports and seacoast ports, when having a carriage over the ocean, is also termed "coastwise." The Chesapeake Bay and Puget Sound are internal bodies of water, therefore, traffic confined to these areas is "internal" rather than "coastwise."

**Lakewise Receipts and Shipments.** These terms apply to traffic between United States ports on the Great Lakes System. The Great Lakes System is treated as a separate system rather than as a part of the inland system.

**Internal Receipts and Shipments.** These terms apply to traffic between ports or landings wherein the entire movement takes place on inland waterways. Also termed internal are movements involving carriage on both inland waterways and waters of the Great Lakes; inland movements that cross short stretches of open waters which link inland systems; marine products, sand and gravel taken directly from beds of the oceans, the Gulf of Mexico and important areas thereof; and movements between offshore installations and inland waterways.

**Local.** Movements of freight within the confines of a port whether the port has only one or several areas or channels, except car-ferry and general ferry are termed "local." The term is also applied to marine products, sand, and gravel taken directly from the Great Lakes.

**Intraterritory receipts and shipments.** These terms apply to traffic between ports in Puerto Rico and the Virgin Islands, U.S.A., which are considered a single unit.

#### Pertaining to Rivers, Federal and Private Canals, Connecting Channels, and Intracoastal Waterways

The terms "imports," "exports," "coastwise receipts," "coastwise shipments," "internal receipts," and "internal shipments" are used as at ports.

**Upbound and Downbound.** These terms are applied to movements within the confines of a river, intracoastal waterway, canal, or a segment of one of these channels as described in the "Section included" for each channel.

**Inbound and Outbound.** Traffic moving from one waterway into another is termed "outbound" in the case of the shipping waterway and "inbound" with respect to the receiving waterway.

**Through Traffic.** Traffic moving through a waterway to and from points on other waterways is termed "through traffic."

#### General Terms

Freight reported under the terms "car ferry" or "general ferry" is not directly included in the port or channel tonnage, but is separately stated and tabulated.

## INTRODUCTION

IX

### COMMODITY CLASSIFICATION FOR DOMESTIC WATERBORNE COMMERCE

NOTE: The commodity descriptions used in the statistical tables in this publication are abbreviated to conserve printing space of the following commodities.

Code No.	Item Name	Code No.	Item Name
<b>Group 01-Farm Products</b>			
0101	Cotton, raw	2034	Vegetables and preparations, canned and otherwise prepared and preserved
0102	Barley and rye	2039	Fruits, and fruit and vegetable juices, canned and otherwise prepared or preserved
0103	Corn	2041	Wheat flour and semolina
0104	Oats	2042	Animal feeds
0105	Rice	2049	Grain mill products, not elsewhere classified
0106	Sorghum Grains	2061	Sugar
0107	Wheat	2062	Molasses
0111	Soybeans	2081	Alcoholic beverages
0112	Planned	2082	Vegetable oils, all grades; margarine and shortening
0119	Oilseeds, not elsewhere classified	2092	Animal oils and fats, not elsewhere classified, including marine
0121	Tobacco, leaf	2094	Groceries
0122	Hay and Fodder	2095	Ice
0129	Field crops, not elsewhere classified	2099	Miscellaneous food products
0131	Fresh fruits	2111	Tobacco manufactures
0132	Bananas and plantains	2211	Basic textile products, except textile fibers
0133	Coffee, green and roasted (including instant)	2212	Textile fibers not elsewhere classified
0134	Cocoa beans	2311	Apparel and other finished textile products, including knit
0141	Fresh and frozen vegetables	2411	Logs
0151	Live animals (livestock) except zoo animals, cats, dogs, etc.	2412	Raffed logs
0161	Animals and animal products, not elsewhere classified	2413	Fuel wood, charcoal, and wastes
0191	Miscellaneous farm products	2414	Timber, posts, poles, piling, and other wood in the rough
<b>Group 08-Forest Products</b>			
0841	Crude rubber and allied gums	2415	Pulpwood, log
0861	Forest products, not elsewhere classified	2416	Wood chips, staves, moldings, and excisor
<b>Group 09-Fresh Fish and Other Marine Products</b>			
0911	Fresh fish, except shellfish	2421	Lumber
0912	Shellfish, except prepared or preserved	2431	Veneer, plywood, and other worked wood
0913	Mahaden	2491	Wood manufactures, not elsewhere classified
0931	Marine shells, unmanufactured	2511	Furniture and fixtures
<b>Group 10-Metallic Ores</b>			
1011	Iron ore and concentrates	2611	Pulp
1021	Copper ore and concentrates	2621	Standard newsprint paper
1051	Bauxite and other aluminum ores and concentrates	2631	Paper and paperboard
1061	Manganese ores and concentrates	2691	Pulp, paper and paperboard products, not elsewhere classified
1091	Nonferrous metal ores and concentrates, not elsewhere classified	2711	Printed matter
<b>Group 11-Coal</b>			
1121	Coal and lignite	2711	Printed matter
<b>Group 13-Crude Petroleum</b>			
1311	Crude petroleum	2810	Sodium hydroxide (caustic soda)
<b>Group 14-Nonmetallic Minerals, Except Fuels</b>			
1411	Limestone flux and calcareous stone	2811	Crude products from coal tar, petroleum, and natural gas, except benzene and toluene
1412	Building stone, unworked	2812	Dyes, organic pigment, dyeing and tanning material
1462	Sand, gravel and crushed rock	2813	Alcohols
1451	Clay, ceramic and refractory materials	2816	Radioactive and associated materials, including wastes
1471	Phosphate rock	2817	Benzene and toluene, crude and commercially pure
1479	Natural fertilizer materials, not elsewhere classified	2818	Sulphuric acid
1491	Salt	2819	Basic chemicals and basic chemical products, not elsewhere classified
1492	Sulphur, dry	2821	Plastic materials, regenerated cellulose and synthetic resins, including film, sheeting, and laminates
1493	Sulphur, liquid	2822	Synthetic rubber
1494	Gypsum, crude and plaster	2823	Synthetic (man-made) fiber
1499	Nonmetallic minerals, except fuels, not elsewhere classified	2831	Drugs (biological products, medicinal chemicals, botanical products and pharmaceutical preparations)
<b>Group 19-Ordnance and Accessories</b>			
1911	Ordnance and accessories	2841	Soaps, detergents, and cleaning preparations; perfumes, cosmetics, and other toilet preparations
<b>Group 20-Food and Kindred Products</b>			
2011	Meat, fresh, chilled, or frozen	2851	Paints, varnishes, lacquers, enamels, and allied products
2012	Meat and meat products prepared or preserved, including canned meat products	2861	Gas and wood chemicals
2014	Tallow, animal fat and oils	2871	Nitrogenous chemical fertilizers, except mixtures
2015	Animal by-products, not elsewhere classified	2872	Potassic chemical fertilizers, except mixtures
2021	Dairy products, except dried milk and cream	2873	Phosphatic chemical fertilizers, except mixtures
2022	Dried milk and cream		
2031	Fish and fish products, including shellfish, prepared or preserved		

X

# Waterborne Commerce of the United States, 1986

Code No.	Item Name	Code No.	Item Name
Group 28-Chemicals and Allied Products			
2876	Insecticides, fungicides, pesticides, and disinfectants		Group 34-Fabricated Metal Products, Except Ordnance, Machinery and Transportation Equipment
2879	Fertilizers and fertilizer materials, not elsewhere classified	3411	Fabricated metal products, except ordnance, machinery, and transportation equipment
2891	Miscellaneous chemical products		Group 35-Machinery, Except Electrical
Group 29-Petroleum and Coal Products			
2911	Gasoline, including natural gasoline	3511	Machinery, except electrical
2912	Jet fuel		Group 36-Electrical Machinery, Equipment and Supplies
2913	Kerosene	3611	Electrical machinery equipment and supplies
2914	Distillate fuel oil		Group 37-Transportation Equipment
2915	Residual fuel oil	3711	Motor vehicles, parts and equipment
2916	Lubricating oils and greases	3721	Aircraft and parts
2917	Naphtha, mineral spirits, solvents, not elsewhere classified	3731	Ships and boats
2918	Asphalt, tar, and pitches	3791	Miscellaneous transportation equipment
2920	Coke, including petroleum coke		Group 38-Instruments, Photographic and Optical Goods, Watches and Clocks
2921	Liquefied petroleum gases, coal gases, natural gas, and natural gas liquids	3811	Instruments, photographic and optical goods, watches and clocks
2951	Asphalt building materials		Group 39-Miscellaneous Products of Manufacturing
2991	Petroleum and coal products, not elsewhere classified	3911	Miscellaneous products of manufacturing
Group 30-Rubber and Miscellaneous Plastic Products			
3011	Rubber and miscellaneous plastic products		Group 40-Waste and Scrap Materials
Group 31-Leather and Leather Products			
3111	Leather and leather products	4011	Iron and steel scrap
Group 32-Stone, Clay, Glass and Concrete Products			
3211	Glass and glass products	4012	Nonferrous metal scrap
3241	Building cement	4022	Textile waste, scrap, and sweepings
3251	Structural clay products, including refractories	4024	Paper waste and scrap
3271	Lime	4029	Waste and scrap, not elsewhere classified
3281	Cut stone and stone products		Group 41-Special Items
3291	Miscellaneous nonmetallic mineral products	4111	Water
Group 33-Primary Metal Products			
3311	Pig iron	4112	Miscellaneous shipments not identifiable by commodity
3312	Slag	4113	LCL freight
3313	Coke (coal and petroleum), petroleum pitches and asphalts, and naphtha and solvents	4118	Materials used in waterway improvement, Government materials
3314	Iron and steel ingots, and other primary forms, including blanks for tube and pipe, and sponge iron	4119	Empty containers
3315	Iron and steel bars, rods, angles, shapes and sections, including sheet piling	9999*	Department of Defense controlled cargo and special category items
3316	Iron and steel plates and sheets		*Cargo exported on Department of Defense controlled vessels (other than goods for the use of U.S. Armed Forces abroad) and non-Department of Defense shipments of military component items (abbreviated SCI) for which commodity detail is not furnished to the Corps of Engineers.
3317	Iron and steel pipe and tube		
3318	Ferri alloys		
3319	Primary iron and steel products, not elsewhere classified including castings in the rough		
3321	Nonferrous metals primary smelter product, basic shapes, wire castings and forgings, except copper, lead, zinc and aluminum		
3322	Copper and copper alloys, whether or not refined, unworked		
3323	Lead and zinc including alloys, unworked		
3326	Aluminum and aluminum alloys, unworked		

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**SECTION 1**

**FREIGHT TRAFFIC**

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# LOS ANGELES, CA, DISTRICT

3

SAN DIEGO HARBOR, CALIF.

SECTION INCLUDED: ENTIRE HARBOR. CONTROLLING AND PROJECT DEPTHS: 42 FEET IN ENTRANCE CHANNELS; 35 TO 42 FEET IN BAY CHANNELS; ANCHORAGES AND TURNING BASINS UP TO 16 FEET IN OTHER CHANNELS AND AREAS.

### COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977	2,204,445	1982	2,398,103
1978	2,571,402	1983	1,121,952
1979	2,401,349	1984	1,803,821
1980	2,198,859	1985	2,873,186
1981	2,650,222	1986	2,343,960

\* PASSENGERS-->40,429.

### FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		COASTWISE		DOMESTIC		LOCAL
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS	
TOTAL-----	2,343,960	620,911	663,146	593,462	8,224	59,423	18,900	580,800
0102 BARLEY AND RYE-----		2,005		2,005				
0107 WHEAT-----		57,226		57,226				
0119 OILSEEDS, NEC-----		1,247		1,247				
0131 FRESH FRUITS-----		1,574		1,574				
0141 FRESH AND FROZEN VEGETABLES-----		247		247				
0861 FOREST PRODUCTS, NEC-----		63,314		3,816				
0912 SHELLFISH, EXCEPT PREPARED-----		26		26				
1021 COPPER ORE AND CONCENTRATES-----		201,118		201,118				
1121 COAL AND LIGNITE-----		22,627		22,627				
1311 CRUDE PETROLEUM-----		38,682		38,682				
1499 NONMETALLIC MINERALS, NEC-----		5,461		5,461				
2039 PREP FRUIT AND VEG JUICE, NEC-----		24,116		24,116				
2081 ALCOHOLIC BEVERAGES-----		41		41				
2099 MISCELLANEOUS FOOD PRODUCTS-----		68		68				
2211 BASIC TEXTILE PRODUCTS-----		14		33		1		
2511 APPAREL-----		71		71				
2421 CLOTHING-----		254,142		21,552		202,540		
2491 WOOD MANUFACTURES, NEC-----		31		17		20		
2511 FURNITURE AND FIXTURES-----		7		7				
2611 PULP-----		3,627		3,627				
2621 STANDARD NEWSPRINT PAPER-----		59,350		59,350				
2691 PULP AND PAPER PRODUCTS, NEC-----		1		1				
2817 BASIC CHEMICALS AND PROD, NEC-----		14,697		14,697				
2871 NITROGENOUS CHEM FERTILIZERS-----		12		12		10		
2872 POTASSIUM CHEM FERTILIZERS-----		46,926		46,926				
2911 GASOLINE-----		14,441		14,441				
2912 JET FUEL-----		37,927		37,927				
2914 DISTILLATE FUEL OIL-----		4,524		4,524				
2915 RESIDUAL FUEL OIL-----		345,184		351		337,909		6,624
2916 LUBRICATING OILS AND GREASES-----		4		4				
3011 RUBBER AND MISC PLASTIC PROD-----		1		1				
3111 LEATHER AND LEATHER PRODUCTS-----		51		51				
3211 GLASS AND GLASS PRODUCTS-----		20		20				
5241 BUILDING CEMENT-----		375,145		375,145				
3251 STRUCTURAL CLAY PRODUCTS-----		14		12				
3291 MISC NONMETALLIC MINERAL PROD-----		1		1				
3411 FABRICATED METAL PRODUCTS-----		26		9		17		
3511 MACHINERY, EXCEPT ELECTRICAL-----		1,626		1,626		30		
3611 ELECTRICAL MACH AND EQUIP-----		55		58				
3711 MOTOR VEHICLES, PARTS, EQUIP-----		463		463				
3721 AIRCRAFT AND PARTS-----		4		4				
3731 SHIPS AND BOATS-----		31		31				
3811 TIME, PHOTY, OPT GOADS-----		6		6				
3911 MISC MANUFACTURED PRODUCTS-----		70		70				
4011 IRON AND STEEL SCRAP-----		60,246		85,240				
4029 WASTE AND SLAP, NEC-----		601,300				1,600		18,900
4112 COMMODITIES, NEC-----		141		141		1		580,800

LONG BEACH HARBOUR, CALIF.

SECTION INCLUDED: ENTIRE HARBOR WITHIN THE CITY LIMITS OF LONG BEACH. CONTROLLING DEPTHS: 62 FEET IN LONG BEACH CHANNEL AND ENTRANCE CHANNELS; 50 FEET TO 55 FEET IN OTHER CHANNELS AND BASINS. PROJECT DEPTHS: 35 FEET IN LONG BEACH CHANNEL AND OTHER CHANNELS AND BASINS.

### COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977	32,985,424	1982	42,010,254
1978	31,526,104	1983	41,112,580
1979	33,347,103	1984	42,048,658
1980	38,779,672	1985	43,977,333
1981	43,537,011	1986*	42,718,268

\* PASSENGERS-->903,451.

# Waterborne Commerce of the United States. 1986

LONG BEACH HARBOR, CALIF., -CONTINUED-

FREIGHT TRAFFIC, 1986

(SHIPS TONS)

COMMODITY	TOTAL	FOREIGN		COASTWISE		DOMESTIC		LOCAL
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS	
TOTAL-----	42,718,268	9,981,865	2,221,002	17,233,020	503,713	14,040,602	137,247	415,542
0101 COTTON, RAW-----	208,970	-----	208,970	-----	-----	-----	-----	-----
0102 BARLEY AND RYE-----	227	87	140	-----	-----	-----	-----	-----
0103 CORN-----	1,164	-----	1,164	-----	-----	-----	-----	-----
0105 RICE-----	23,607	19,598	4,009	-----	-----	-----	-----	-----
0106 SORGHUM GRAINS-----	71	-----	71	-----	-----	-----	-----	-----
0107 WHEAT-----	30,176	-----	30,176	-----	-----	-----	-----	-----
0111 SUGARBEANS-----	2,871	15	16	-----	-----	-----	-----	-----
0119 OILSEEDS, NEC-----	19,067	1,713	18,350	-----	-----	-----	-----	-----
0121 TOBACCO, LEAF-----	3,393	2,795	1,008	-----	-----	-----	-----	-----
0129 FIELD CROPS, NEC-----	10,148	3,013	7,135	-----	-----	-----	-----	-----
0131 FRESH FRUITS-----	373,909	591	375,318	-----	-----	-----	-----	-----
0132 BANANAS AND PLANTAINS-----	312,113	312,113	-----	-----	-----	-----	-----	-----
0133 COFFEE-----	41,182	26,871	14,311	-----	-----	-----	-----	-----
0134 COCONUT BEANS-----	382	382	-----	-----	-----	-----	-----	-----
0141 FRESH AND FROZEN VEGETABLES-----	34,447	5,078	29,359	-----	-----	-----	-----	-----
0161 ANIMALS AND PRODUCTS, NEC-----	12,117	5,388	6,729	-----	-----	-----	-----	-----
0191 MISCELLANEOUS FARM PRODUCTS-----	6,411	881	5,531	-----	-----	-----	-----	-----
0841 CRUDE RUBBER AND ALLIED GUMS-----	18,667	18,549	116	-----	-----	-----	-----	-----
0861 FOREST PRODUCTS, NEC-----	7,151	5,910	1,291	-----	-----	-----	-----	-----
0911 FRESH FISH, EXCEPT SHELLFISH-----	17,579	15,445	2,134	-----	-----	-----	-----	-----
0912 SHELLFISH, EXCEPT PREPARED-----	32,246	29,421	2,816	-----	-----	-----	-----	-----
0931 MARINE SHELLS, UNMANUFACTURED-----	2,118	650	1,454	-----	-----	-----	-----	-----
1011 IRON ORE AND CONCENTRATES-----	20	-----	20	-----	-----	-----	-----	-----
1021 COPPER ORE AND CONCENTRATES-----	24,173	-----	24,173	-----	-----	-----	-----	-----
1051 ALUMINUM ORES, CONCENTRATES-----	17,527	1,258	16,259	-----	-----	-----	-----	-----
1061 MANGANESE ORES, CONCENTRATES-----	414	-----	414	-----	-----	-----	-----	-----
1091 NONFERROUS ORES, CONCENT., NEC-----	10,308	7,998	2,370	-----	-----	-----	-----	-----
1121 COAL AND LIGNITE-----	122,186	-----	122,186	-----	-----	-----	-----	-----
1311 CRUDE PETROLEUM-----	17,076,629	591,456	16,187,150	-----	-----	15,431	23,486	59,090
1411 LIMESTONE-----	23	23	-----	-----	-----	-----	-----	-----
1412 BUILDING STONE, UNWORKED-----	39	-----	39	-----	-----	-----	-----	-----
1442 SAND, GRAVEL, CRUSHED ROCK-----	1,979	752	1,231	-----	-----	-----	-----	-----
1451 CLAY-----	13,396	1,864	10,036	-----	-----	-----	1,484	-----
1471 PHOSPHATE ROCK-----	467	60	197	-----	-----	-----	-----	-----
1479 NATURAL FERTILIZER MATS, NEC-----	2,212	2,212	-----	-----	-----	-----	-----	-----
1491 SALT-----	134,260	134,230	30	-----	-----	-----	-----	-----
1492 SULPHUR, DRY-----	46,576	-----	46,576	-----	-----	-----	-----	-----
1494 GYPSUM, CRUDE AND PLASTERS-----	646,496	645,047	1,449	-----	-----	-----	-----	-----
1499 NOVEMETALLIC MINERALS, NEC-----	119,179	1,856	117,323	-----	-----	-----	-----	-----
1911 ORDNANCE AND ACCESSORIES-----	1,360	913	437	-----	-----	-----	-----	-----
2011 MEAT, FRESH, CHILLED, FROZEN-----	131,596	61,303	58,293	-----	-----	-----	-----	-----
2012 MEAT AND PRODUCTS, NEC-----	10,000	7,190	2,406	-----	-----	-----	-----	-----
2014 TALLOW, ANIMAL FATS AND OILS-----	49,164	-----	49,164	-----	-----	-----	-----	-----
2015 ANIMAL BY-PRODUCTS, NEC-----	98,854	641	98,750	-----	-----	-----	-----	-----
2021 DAIRY PRODUCTS, NEC-----	1,295	876	119	-----	-----	-----	-----	-----
2022 DRIED MILK AND CREAM-----	5,278	14	5,264	-----	-----	-----	-----	-----
2031 FISH AND SHELLFISH, PREPARED-----	59,080	54,120	4,960	-----	-----	-----	-----	-----
2034 VEGETABLES AND PREP., NEC-----	76,695	65,667	8,976	-----	-----	-----	-----	-----
2039 PREP FRUIT AND VEG JUICE, NEC-----	104,315	53,256	51,059	-----	-----	-----	-----	-----
2041 WHEAT FLOUR AND SEMOLINA-----	3	-----	3	-----	-----	5	-----	-----
2042 ANIMAL FEEDS-----	161,825	11,445	150,330	-----	-----	-----	-----	-----
2049 GRAIN MILL PRODUCTS, NEC-----	27,899	18,255	9,184	-----	-----	-----	-----	-----
2061 SUGAR-----	114	34	80	-----	-----	-----	-----	-----
2081 ALCOHOLIC BEVERAGES-----	82,621	73,792	8,228	-----	-----	201	-----	-----
2091 VEGETABLE OILS, MARG, SHORT-----	30,519	23,283	7,236	-----	-----	-----	-----	-----
2092 ANIMAL OILS AND FATS, NEC-----	296	259	17	-----	-----	-----	-----	-----
2093 GROCERIES-----	473	-----	473	-----	-----	-----	-----	-----
2095 ICE-----	8,581	9,521	-----	-----	-----	-----	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	113,422	65,123	47,293	-----	-----	-----	-----	-----
2111 TOBACCO MANUFACTURES-----	4,257	276	3,291	-----	-----	-----	-----	-----
2211 BASIC TEXTILE PRODUCTS-----	146,367	137,153	11,152	-----	-----	82	-----	-----
2212 TEXTILE FIBERS, NEC-----	5,845	2,126	3,719	-----	-----	-----	-----	-----
2311 APPAREL-----	200,597	200,077	520	-----	-----	-----	-----	-----
2411 LOGS-----	2,785	1,322	1,465	-----	-----	-----	-----	-----
2413 FUEL WOOD, CHARCOAL, WASTES-----	2,368	1,123	1,265	-----	-----	-----	-----	-----
2414 TIMBER, POSTS, POLES, PILING-----	1,035	992	91	-----	-----	-----	-----	-----
2415 PULPWOOD, LOG-----	98	-----	95	-----	-----	-----	-----	-----
2416 WOOD CHIPS, STAVES, MULDINGS-----	5,816	3,247	2,512	-----	-----	-----	-----	-----
2421 LUMBER-----	206,885	103,730	11,585	91,570	-----	-----	-----	-----
2431 VENEER, PLYWOOD, WORKED WOOD-----	56,447	53,411	4,836	-----	-----	-----	-----	-----
2471 WOOD MANUFACTURES, NEC-----	61,678	47,219	5,241	-----	-----	6,831	807	-----
2511 FURNITURE AND FIXTURES-----	258,522	256,160	2,362	-----	-----	-----	-----	-----
2611 PULP-----	19,555	1,862	17,634	-----	-----	-----	-----	-----
2621 STANDARD NEWSPRINT PAPER-----	217,414	216,142	1,272	-----	-----	-----	-----	-----
2631 PAPER AND PAPERBOARD-----	129,650	72,070	57,581	-----	-----	-----	-----	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	21,079	17,662	6,554	-----	-----	1,378	-----	-----
2711 PRINTED MATTER-----	29,199	22,373	5,925	-----	-----	1	-----	-----
2810 SODIUM HYDROXIDE-----	41,862	-----	41,862	-----	-----	-----	-----	-----
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	3,384	3,235	1,9	-----	-----	-----	-----	-----
2812 DYES, PIGMENT, TANNING MATS-----	1,165	-----	1,165	-----	-----	-----	-----	-----
2813 ALCOHOLS-----	4,632	2,095	2,137	-----	-----	-----	-----	-----
2816 RADIOACTIVE MATERIALS, WASTES-----	22	-----	22	-----	-----	-----	-----	-----
2817 BENZENE AND TOLUENE-----	13,901	13,867	34	-----	-----	-----	-----	-----
2819 BASIC CHEMICALS AND PROD., NEC-----	992,448	379,402	581,102	31,610	334	-----	-----	-----
2821 PLASTIC MATERIALS-----	333,842	70,209	263,138	-----	-----	-----	-----	-----
2822 SYNTHETIC RUBBER-----	19,293	921	19,202	-----	-----	-----	-----	-----
2823 SYNTHETIC (MAN-MADE) FIBERS-----	5,465	3,839	1,424	-----	-----	-----	-----	-----
2831 OILS-----	7,316	4,215	3,113	-----	-----	-----	-----	-----
2841 SOAPS-----	23,592	5,804	17,768	-----	-----	-----	-----	-----
2851 PAINTS-----	26,369	17,341	8,698	-----	-----	-----	-----	-----
2861 GUM AND WOOD CHEMICALS-----	2,720	766	1,574	-----	-----	-----	-----	-----
2871 NITROGENOUS CHEM FERTILIZERS-----	1,295	380	165	-----	-----	-----	-----	-----

## LOS ANGELES, CA, DISTRICT

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LONG BEACH HARBOR, CALIF.--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		COASTWISE		DOMESTIC INTERNAL		LOCAL
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS	
2872 POTASSIC CHEM FERTILIZERS-----	97,801	20	97,781	-----	-----	-----	-----	-----
2873 PHOSPHATIC CHEM FERTILIZERS-----	518	479	39	-----	-----	-----	-----	-----
2876 INSECTICIDES, DISINFECTANTS-----	4,114	628	3,490	-----	-----	-----	-----	-----
2879 FERTILIZER AND MATERIALS, NEC-----	2,346	173	2,175	-----	-----	-----	-----	-----
2891 MISCELLANEOUS CHEMICAL PROD-----	35,416	10,875	19,971	-----	4,570	-----	-----	-----
2911 GASOLINE-----	473,125	26,066	46,538	343,563	46,312	62	8,523	41
2912 JET FUEL-----	64,959	-----	17,767	51,970	15,222	-----	-----	-----
2913 KEROSENE-----	81	-----	61	-----	-----	-----	-----	-----
2914 DISTILLATE FUEL OIL-----	1,048,174	-----	400,127	226,225	190,416	71,968	152,560	2,002
2915 RESIDUAL FUEL OIL-----	6,069,501	399	546,335	45,788	130,405	6,310,010	695,080	325,488
2916 LUBRICATING OILS AND GREASES-----	202,465	8,205	190,187	-----	-----	4,050	9	14
2917 NAPHTHA, PETROLEUM SOLVENTS-----	60,370	22,314	238	20,503	-----	-----	7,630	9,677
2918 ASPHALT, TAR, AND PITCHES-----	646	22	626	-----	-----	-----	-----	-----
2920 COKE, PETROLEUM COKE-----	4,237,711	-----	4,237,711	-----	-----	-----	-----	-----
2921 LIQUEFIED GASES-----	695	48	637	-----	-----	-----	-----	-----
2951 ASPHALT BUILDING MATERIALS-----	427	-----	427	-----	-----	-----	-----	-----
2991 PETROLEUM AND COAL PROD, NEC-----	42,684	407	1,269	13,285	8,535	943	-----	18,245
3011 RUBBER AND MISC PLASTIC PROD-----	310,341	295,582	16,759	-----	-----	-----	-----	-----
3111 LEATHER AND LEATHER PRODUCTS-----	197,629	194,249	3,380	-----	-----	-----	-----	-----
3113 GLASS AND GLASS PRODUCTS-----	46,600	40,985	5,655	-----	-----	-----	-----	-----
3241 BUILDING CEMENT-----	769,872	769,728	64	80	-----	-----	-----	-----
3251 STRUCTURAL CLAY PRODUCTS-----	36,605	30,564	4,041	-----	-----	-----	-----	-----
3271 LT4E-----	12	3	9	-----	-----	-----	-----	-----
3281 CUT STONE AND STONE PRODUCTS-----	23,575	23,459	116	-----	-----	-----	-----	-----
3291 MISC NONMETALLIC MINERAL PROD-----	100,725	93,876	6,889	-----	-----	-----	-----	-----
3311 PIG IRON-----	286	280	-----	-----	-----	-----	-----	-----
3314 IRON AND STEEL PRIMARY FORMS-----	333,989	335,871	116	-----	-----	-----	-----	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	1,113,615	1,111,955	1,060	-----	-----	-----	-----	-----
3316 IRON AND STEEL PLATES, SHEETS-----	2,907	694	2,253	-----	-----	-----	-----	-----
3317 IRON AND STEEL PIPE AND TUBE-----	204,659	200,837	3,818	8	-----	-----	-----	-----
3318 FERROALLOYS-----	10,072	9,803	269	-----	-----	-----	-----	-----
3319 IRON AND STEEL PRODUCTS, NEC-----	12,561	11,570	991	-----	-----	-----	-----	-----
3321 NONFERROUS METALS, NEC-----	13,493	5,258	8,235	-----	-----	-----	-----	-----
3322 COPPER ALLOYS, UNWORKED-----	19,563	14,214	5,349	-----	-----	-----	-----	-----
3323 LEAD AND ZINC, UNWORKED-----	31,398	25,758	5,640	-----	-----	-----	-----	-----
3324 ALUMINUM AND ALLOYS, UNWORKED-----	56,365	43,834	12,519	-----	12	-----	-----	-----
3411 FABRICATED METAL PRODUCTS-----	432,950	403,638	18,402	-----	10,902	0	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	542,055	471,379	69,877	8	196	455	60	84
3611 ELECTRICAL MACH AND EQUIP-----	776,100	749,881	26,168	-----	51	-----	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	659,221	633,263	25,921	-----	37	-----	-----	-----
3721 AIRCRAFT AND PARTS-----	5,648	951	3,019	-----	178	-----	-----	-----
3731 SHIPS AND BOATS-----	8,687	7,812	875	-----	-----	-----	-----	-----
3791 MISC TRANSPORTATION EQUIPMENT-----	2,241	970	1,268	-----	-----	3	-----	-----
3811 INSTN, TIME, PHOTO, OPT GOODS-----	96,279	86,799	12,480	-----	-----	-----	-----	-----
3911 MISC MANUFACTURED PRODUCTS-----	394,711	388,653	6,056	-----	-----	-----	-----	-----
4011 IRON AND STEEL SCRAP-----	89,663	122	87,541	-----	-----	-----	-----	-----
4012 NONFERROUS METAL SCRAP-----	84,666	3,236	81,430	-----	-----	-----	-----	-----
4022 TEXTILE WASTE, SCRAP, SHEEP-----	10,319	362	9,957	-----	-----	-----	-----	-----
4024 PAPER WASTE AND SCRAP-----	604,298	113	604,185	-----	-----	-----	-----	-----
4029 WASTE AND SCRAP, NEC-----	70,200	-----	-----	-----	-----	70,200	-----	-----
4111 WATER-----	25	-----	-----	-----	-----	-----	25	-----
4112 COMMODITIES, NEC-----	117,812	18,561	26,305	194	70,321	185	246	-----
4119 EMPTY CONTAINERS-----	13	-----	-----	-----	-----	12	1	-----
9999 DEPARTMENT OF DEFENSE AND SCI-----	1,326	-----	1,326	-----	-----	-----	-----	-----

LOS ANGELES HARBOR, CALIF.

SECTION INCLUDED: ENTIRE HARBOR WITHIN THE CITY LIMITS OF LOS ANGELES. CONTROLLING DEPTH: 45 TO 51 FEET IN ENTRANCE AND OUTER HARBOR CHANNELS AND BASINS; 45 FEET IN LOS ANGELES CHANNEL AND INNER HARBOR BASINS AND CHANNELS. PROJECT DEPTH: 45 TO 51 FEET IN ENTRANCE AND OUTER HARBOR CHANNELS AND BASINS; 45 FEET IN LOS ANGELES CHANNEL AND INNER HARBOR BASINS AND CHANNELS.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1977-----	31,375,506	603,647	1982-----	13,099,929	582,302
1978-----	32,021,478	586,831	1983-----	28,034,681	431,184
1979-----	31,749,483	624,289	1984-----	31,202,369	659,753
1980-----	30,151,053	699,175	1985-----	36,373,907	589,161
1981-----	31,526,075	712,290	1986-----	39,659,449	330,407

## FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		COASTWISE		DOMESTIC INTERNAL		LOCAL
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS	
TOTAL-----	39,859,449	10,416,681	8,455,052	9,075,406	3,200,847	957,985	8,442,664	3,309,998
0101 COTTON, RAG-----	229,463	-----	229,463	-----	-----	-----	-----	-----
0102 BARLEY AND RYE-----	565	18	567	-----	-----	-----	-----	-----
0103 CORN-----	3,476	19	3,457	-----	-----	-----	-----	-----
0104 OATS-----	31	-----	31	-----	-----	-----	-----	-----
0105 RICE-----	24,170	23,301	255	-----	618	-----	-----	-----
0106 BORGHUM GRAINS-----	530	-----	530	-----	-----	-----	-----	-----
0107 WHEAT-----	4,385	7	4,378	-----	-----	-----	-----	-----

# Waterborne Commerce of the United States, 1986

LOS ANGELES HARBOR, CALIF.--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		LOCAL	
		IMPORTS	EXPORTS	COASTWISE			
				RECEIPTS	SHIPMENTS		
0111 SOYBEANS-----	5,303	-----	5,393	-----	-----		
0119 OILSEEDS, NEL-----	9,232	550	9,682	-----	-----		
0121 TOBACCO, LEAF-----	3,301	117	3,224	-----	-----		
0129 FIELD CROPS, NEC-----	9,110	3,876	5,234	-----	-----		
0131 FRESH FRUITS-----	262,918	4,005	190,609	58,333	9,671		
0132 BANANAS AND PLANTAINS-----	274,710	260,399	-----	-----	5,311		
0133 COFFEE-----	18,914	17,796	1,023	45	50		
0134 COCONUT BEANS-----	219	218	1	-----	-----		
0141 FRESH AND FROZEN VEGETABLES-----	64,623	3,346	22,575	1,776	36,926		
0151 LIVE ANIMALS-----	262	48	14	-----	200		
0161 ANIMALS AND PRODUCTS, NEC-----	12,376	1,875	9,112	-----	1,389		
0191 MISCELLANEOUS FARM PRODUCTS-----	1,999	1,372	627	-----	-----		
0271 CRUDE RUBBER AND ALLIED GUYS-----	21,413	21,211	202	-----	-----		
0861 FOREST PRODUCTS, NEC-----	10,208	4,989	1,919	3,279	21		
0911 FRESH FISH, EXCEPT SHELLFISH-----	28,256	26,722	1,534	-----	-----		
0912 SHELLFISH, EXCEPT PREPARED-----	38,913	34,327	1,922	95	2,569		
0931 MARINE SHELLS, UNMANUFACTURED-----	1,631	631	1,200	-----	-----		
1011 IRON ORE AND CONCENTRATES-----	4	4	-----	-----	-----		
1021 COPPER ORE AND CONCENTRATES-----	308,557	15,957	292,600	-----	-----		
1051 ALUMINUM ORES, CONCENTRATES-----	5,235	5,065	170	-----	-----		
1091 NONFERROUS ORES, CONCENT., NEC-----	5,247	1,855	2,562	-----	830		
1121 COAL AND LIGNITE-----	906,683	15	906,666	-----	-----		
1311 CRUDE PETROLEUM-----	4,337,688	555,076	8	3,683,612	54,713	23,486	
1411 LIMESTONE-----	206	44	162	-----	15,431	5,362	
1412 BUILDING STONE, UNWORKED-----	84	-----	84	-----	-----		
1442 SAND, GRAVEL, CRUSHED ROCK-----	8,059	2,693	1,786	-----	3,600		
1451 CLAY-----	15,816	2,224	13,286	-----	300		
1471 PHOSPHATE ROCK-----	540	84	456	-----	-----		
1491 SALT-----	1,691	1,891	-----	-----	-----		
1492 SULPHUR, DRY-----	489,369	-----	489,369	-----	-----		
1498 GYPSUM, CRUDE AND PLASTERS-----	8,189	62	1,740	-----	6,387		
1499 NONMETALLIC MINERALS, NEC-----	118,965	3,111	115,054	-----	-----		
1911 ORDNANCE AND ACCESSORIES-----	4,362	3,174	1,180	-----	-----		
2011 MEAT, FRESH, CHILLED, FROZEN-----	173,709	32,536	60,531	807	59,755		
2012 MEAT AND PRODUCTS, NEC-----	19,651	17,072	2,579	-----	-----		
2014 TALLOW, ANIMAL FATS AND OILS-----	4,239	-----	4,239	-----	-----		
2015 ANIMAL BY-PRODUCTS, NEC-----	181,742	68	141,304	370	-----		
2021 DAIRY PRODUCTS, NEC-----	61,142	1,710	417	-----	4,015		
2022 DRIED MILK AND CREAM-----	7,213	63	7,150	-----	-----		
2031 FISH AND SHELLFISH, PREPARED-----	88,764	45,206	3,556	-----	-----		
2034 VEGETABLES AND PEP, NEC-----	66,992	27,871	5,522	2,526	31,073		
2039 PREP FRUIT AND VEG JUICE, NEC-----	199,053	88,728	41,984	68,680	3,681		
2041 WHEAT FLOUR AND SEMOLINA-----	1,166	-----	1,082	-----	86		
2042 ANIMAL FEEDS-----	352,634	5,815	323,766	-----	23,053		
2049 GRAIN MILL PRODUCTS, NEC-----	67,186	14,798	52,392	-----	-----		
2061 SUGAR-----	153	68	60	-----	23		
2062 MOLASSES-----	143,624	15,089	252	55,702	9,193	63,388	
2081 ALCOHOLIC BEVERAGES-----	238,443	123,883	8,856	136	105,568		
2091 VEGETABLE OILS, MARG, SHORT-----	55,050	36,827	5,693	49	10,481		
2092 ANIMAL OILS AND FATS, NEC-----	1,127	1,102	25	-----	-----		
2099 GROCERIES-----	35,841	-----	-----	121	35,042	873	
2095 ICE-----	19,957	19,928	29	-----	-----		
2099 MISCELLANEOUS FOOD PRODUCTS-----	103,724	47,795	41,555	1,295	13,079		
2111 TUBACCO MANUFACTURES-----	7,190	370	5,186	-----	1,638		
2211 BASIC TEXTILE PRODUCTS-----	147,228	137,710	6,805	22	2,691		
2212 TEXTILE FIBERS, NEC-----	4,582	356	4,226	-----	-----		
2311 APPAREL-----	245,088	244,389	699	-----	-----		
2411 LOGS-----	2,635	1,745	690	-----	-----		
2413 FUEL WOOD, CHARCOAL, WASTES-----	3,323	269	1,786	37	1,209		
2414 TIMBER, POSTS, POLES, PILING-----	4,693	4,670	23	-----	-----		
2416 WOOD CHIPS, STAVES, HOLDINGS-----	3241	65	279	-----	-----		
2421 LUMBER-----	358,723	96,778	7,406	254,054	485		
2431 VENEER, PLYWOOD, WORKED WOOD-----	61,665	59,112	2,312	-----	481		
2491 WOOD MANUFACTURES, NEC-----	58,807	42,613	13,820	-----	974	987	
2511 FURNITURE AND FIXTURES-----	228,688	180,127	2,655	23,670	14,236	413	
2611 PULP-----	14,235	58	14,177	-----	-----		
2621 STANDARD NEWSPRINT PAPER-----	135,571	120,804	6,767	-----	-----		
2631 PAPER AND PAPERBOARD-----	153,090	119,583	27,271	11	6,225		
2691 PULP AND PAPER PRODUCTS, NEC-----	36,974	13,847	4,690	17	18,420		
2711 PRINTED MATTER-----	32,278	25,725	3,436	-----	3,117		
2810 SODIUM HYDROXIDE-----	5,912	-----	-----	5,912	-----		
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	40,413	16,370	806	-----	23,237		
2812 DYES, PIGMENT, TANNING MATS-----	2,082	-----	2,082	-----	-----		
2813 ALCOHOLS-----	47,158	15,983	2,243	28,932	-----		
2816 RADIOACTIVE MATERIALS, WASTES-----	836	-----	251	585	-----		
2817 BENZENE AND TOLUENE-----	59,381	59,331	50	-----	-----		
2819 BASIC CHEMICALS AND PROD, NEC-----	1,460,987	691,783	724,114	41,331	3,759		
2821 PLASTIC MATERIALS-----	202,545	105,294	95,989	-----	1,262		
2822 SYNTHETIC RUBBER-----	19,445	1,851	17,594	-----	-----		
2823 SYNTHETIC (MAN-MADE) FIBERS-----	10,361	7,944	2,417	-----	-----		
2831 DRUGS-----	13,910	6,698	4,230	35	2,947		
2841 SOAP-----	39,038	7,705	19,503	18	12,206		
2851 PAINTS-----	32,039	17,958	7,484	-----	6,601		
2861 GUM AND WOOD CHEMICALS-----	8,416	127	1,194	3,097	-----		
2871 NITROGENOUS CHEM FERTILIZERS-----	37,692	30,776	2,126	24	4,966		
2872 POTASSIC CHEM FERTILIZERS-----	3,374	45	3,329	-----	-----		
2873 PHOSPHATIC CHEM FERTILIZERS-----	43	20	23	-----	-----		
2876 INSECTICIDES, DISINFECTANTS-----	10,486	1,299	8,389	-----	798		
2879 FERTILIZER AND MATERIALS, NEC-----	1,586	88	1,504	-----	-----		
2891 MISCELLANEOUS CHEMICAL PROD-----	89,337	27,701	29,388	13,584	18,684		
2911 GASOLINE-----	3,078,401	881,103	13,981	1,829,427	326,285	8,523	
2912 JET FUEL-----	625,049	163,367	-----	380,466	74,063	7,153	
2913 KEROSENE-----	1,466	1,222	244	-----	-----		
2914 DISTILLATE FUEL OIL-----	2,560,521	-----	399,359	1,117,631	696,674	152,560	
					71,964	122,333	

LOS ANGELES, CA, DISTRICT

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LOS ANGELES HARBOR, CALIF.--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		LOCAL
		COASTWISE		INTERNAL	SHIPMENTS	
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	
2915 RESIDUAL FUEL OIL-----	11,369,752	99,220	1,110,844	498,747	1,166,712	695,080 4,310,010 3,089,160
2916 LUBRICATING OILS AND GREASES-----	526,956	55,724	84,902	352,527	28,876 9	6,050 2,788
2917 NAPHTHA, PETROLEUM SOLVENTS-----	219,924	105,806	115	79,312	27,053	7,638
2918 ASPHALT, TAR, AND PITCHES-----	19,602	24	93	-----	19,485	-----
2920 COKE, PETROLEUM COKE-----	733,460	733,460	-----	-----	-----	-----
2921 LIQUEFIED GASES-----	72,180	71,749	431	-----	-----	-----
2951 ASPHALT BUILDING MATERIALS-----	1,672	-----	815	-----	857	-----
2991 PETROLEUM AND COAL PROD, NEC-----	140,761	114	2,545	123,452	17,707	983
3011 RUBBER AND 415C PLASTIC PROD-----	314,670	297,256	12,015	147	5,252	-----
5111 LEATHER AND LEATHER PRODUCTS-----	174,855	160,365	5,440	-----	-----	-----
3211 GLASS AND GLASS PRODUCTS-----	49,269	43,906	3,321	13	2,029	-----
3241 BUILDING CEMENT-----	166,928	162,825	233	-----	3,870	-----
3251 STRUCTURAL CLAY PRODUCTS-----	127,319	123,038	2,108	-----	1,773	-----
3271 LIME-----	19	-----	19	-----	-----	-----
3281 CUT STONE AND STONE PRODUCTS-----	68,418	67,154	296	-----	968	-----
3291 MISC NONMETALLIC MINERAL PROD-----	144,606	110,443	3,507	-----	30,858	-----
3311 PIG IRON-----	6,830	8,808	22	-----	-----	-----
3312 SLAG-----	2,916	2,412	-----	-----	504	-----
3314 IRON AND STEEL PRIMARY FORMS-----	69,375	65,426	3,949	-----	-----	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	909,181	908,528	653	-----	-----	-----
3316 IRON AND STEEL PLATES, SHEETS-----	7,784	116	4,180	28	3,500	-----
3317 IRON AND STEEL PIPE AND TUBE-----	217,984	209,430	1,069	-----	7,485	-----
3318 FERROALLOYS-----	2,753	2,176	577	-----	-----	-----
3319 IRON AND STEEL PRODUCTS, NEC-----	37,963	20,967	16,976	-----	-----	-----
3321 NONFERROUS METALS, NEC-----	13,318	4,829	8,466	-----	23	-----
3322 COPPER ALLOYS, UNWORKED-----	21,210	19,052	2,158	-----	-----	-----
3323 LEAD AND ZINC, UNWORKED-----	11,689	9,504	2,123	-----	22	-----
3324 ALUMINUM AND ALLOYS, UNWORKED-----	76,479	60,056	16,423	-----	-----	-----
3411 FABRICATED METAL PRODUCTS-----	471,723	437,643	16,648	2,560	12,662	8 2
3511 MACHINERY, EXCEPT ELECTRICAL-----	599,694	541,975	51,287	1,351	4,701	60 436 124
3611 ELECTRICAL MACH AND EQUIP-----	771,171	737,804	30,071	19	3,277	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	1,122,673	1,063,597	16,458	20,135	22,463	-----
3721 AIRCRAFT AND PARTS-----	4,174	1,074	3,052	11	37	-----
3731 SHIPS AND BOATS-----	10,767	9,550	985	55	177	-----
3791 MISC TRANSPORTATION EQUIPMENT-----	6,548	213	6,201	8	123	3 -----
3811 INSTR, TIME, PHOTO, OPT GOODS-----	73,410	67,692	5,718	-----	-----	-----
3911 MISC MANUFACTURED PRODUCTS-----	354,114	333,987	5,545	6,759	7,823	-----
4011 IRON AND STEEL SCRAP-----	1,289,755	423	1,283,868	5,464	-----	-----
4012 NONFERROUS METAL SCRAP-----	111,099	962	110,137	-----	-----	-----
4022 TEXTILE ASTE, SCRAP, SHEEP-----	22,203	136	22,067	-----	-----	-----
4024 PAPER WASTE AND SCRAP-----	371,967	0	371,893	70	-----	-----
4029 WASTE AND SCRAP, NEC-----	110,435	-----	-----	2,174	70,200	38,061
4111 WATER-----	2,469	-----	-----	2,469	-----	-----
4112 COMMODITIES, NEC-----	248,792	17,080	30,634	6,720	193,373	369 194 42
4119 EMPTY CONTAINERS-----	2,344	-----	-----	1,631	691	22
9999 DEPARTMENT OF DEFENSE AND SCI-----	3,915	-----	3,915	-----	-----	-----

PORT HUENEME, CALIF.

SECTION INCLUDED: HARBOR AT PORT HUENEME, PROJECT DEPTHS: 40 FEET IN APPROACH CHANNEL; 36 FEET IN ENTRANCE CHANNEL; 35 FEET IN CHANNEL BASIN AND CHANNEL A, CONTROLLING DEPTH: 36 FEET IN APPROACH CHANNEL; 34 FEET IN ENTRANCE CHANNEL; 31 FEET IN CENTRAL BASIN AND CHANNEL B.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977-----	1,875,743	1982-----	338,719
1978-----	958,668	1983-----	203,746
1979-----	1,180,424	1984-----	348,518
1980-----	1,405,744	1985-----	1,139,852
1981-----	1,527,774	1986-----	521,187

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		LOCAL
		COASTWISE		INTERNAL	SHIPMENTS	
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	
TOTAL-----	521,187	333,881	43,855	101,310	36,825	174 5,140 2
0107 MEAT-----	11,498	-----	11,498	-----	-----	-----
0129 FIELD CROPS, NEC-----	23,702	-----	23,702	-----	-----	-----
0131 FRESH FRUITS-----	7,877	922	6,955	-----	-----	-----
0132 BANANAS AND PLANTAINS-----	111,709	111,709	-----	-----	-----	-----
0141 FRESH AND FROZEN VEGETABLES-----	361	-----	361	-----	-----	-----
1311 CRUDE PETROLEUM-----	29,630	29,030	-----	-----	-----	-----
1442 SAND, GRAVEL, CRUSHED ROCK-----	8	-----	-----	-----	-----	8
1651 CLAY-----	3	-----	-----	3	-----	-----
2031 FISH AND SHELLFISH, PREPARED-----	20	20	-----	-----	-----	-----
2039 PREP FRUIT AND VEG JUICE, NEC-----	1,980	785	1,199	-----	3	-----
2074 GROCERIES-----	3	-----	-----	3	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	23	-----	-----	23	-----	-----
2211 BASIC TEXTILE PRODUCTS-----	19	19	-----	-----	-----	-----
2311 APPAREL-----	32	32	-----	-----	-----	-----
2421 LUMBER-----	38,710	-----	38,710	-----	-----	-----

## Waterborne Commerce of the United States, 1986

PORT HUENEME, CALIF.--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC				LOCAL	
				COASTWISE		INTERNAL			
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS		
2611 PULP-----	46,088	46,088	-----	-----	-----	-----	-----	-----	
2819 BASIC CHEMICALS AND PROD, NEC-----	10	-----	-----	-----	-----	-----	10	-----	
2911 GASOLINE-----	787	-----	-----	787	-----	-----	-----	-----	
2914 DISTILLATE FUEL OIL-----	14,566	-----	-----	-----	14,566	-----	-----	-----	
2915 RESIDUAL FUEL OIL-----	60,659	-----	-----	60,659	-----	-----	-----	-----	
2991 PETROLEUM AND COAL PROD, NEC-----	126	-----	-----	126	-----	-----	-----	-----	
3011 RUBBER AND MISC PLASTIC PROD-----	1	1	-----	-----	-----	-----	-----	-----	
3201 BUILDING CEMENT-----	80	-----	-----	-----	80	-----	-----	-----	
3317 IRON AND STEEL PIPE AND TUBE-----	1,183	1,189	-----	1	-----	-----	13	-----	
3411 FABRICATED METAL PRODUCTS-----	176	3	23	3	46	21	46	-----	
3511 MACHINERY, EXCEPT ELECTRICAL-----	8,143	44	92	635	3,146	71	4,153	-----	
3611 ELECTRICAL MACH AND EQUIP-----	120	10	6	22	37	-----	45	-----	
3711 MOTOR VEHICLES, PARTS, EQUIP-----	144,047	144,047	-----	-----	-----	-----	-----	-----	
3731 SHIPS AND BOATS-----	2	-----	1	-----	-----	-----	1	-----	
3911 MISC MANUFACTURED PRODUCTS-----	18,396	2	-----	30	18,384	-----	20	-----	
4029 WASTE AND SCRAP, NEC-----	51	-----	-----	14	-----	37	-----	-----	
4111 WATER-----	530	-----	-----	-----	1	-----	535	-----	
4112 COMMODITIES, NEC-----	883	-----	18	95	495	-----	275	2	
4119 EMPTY CONTAINERS-----	150	-----	-----	28	81	45	-----	-----	

## LOS ANGELES, CA, DISTRICT

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HARBOR OR WATERWAY		CARRIER	TONS	TOTAL TONE MILES	PASSENGERS
PROJECT	NONPROJECT				
MISSION BAY, CALIF.		NO COMMERCE REPORTED			
NORRO BAY HARBOR, CALIF.		NO COMMERCE REPORTED			
NEWPORT BAY HARBOR, CALIF.		3241 BUILDING, CEMENT 3511 MACHINERY, EXCEPT ELECTRICAL 4112 QUARANTINES, VECT	200 100 100	200 100 100	
REDDONDO BEACH, CALIF.		NO COMMERCE REPORTED			
SANTA BARBARA HARBOR, CALIF.		NO COMMERCE REPORTED			
ELLWOOD, CALIF.		1811 CRUDE PETROLEUM 1451 CLAY 2094 SANDSTONES 2099 MISCELLANEOUS FUND PRODUCTS 2611 DISTILLATE FUEL OIL 2910 LUBRICATING OILS AND STICKS 2991 PETROLEUM AND CRUDE PETROLEUM 3317 IRON AND STEEL PIPE AND TUBE 3411 FABRICATED METAL PRODUCTS 3511 MACHINERY, EXCEPT ELECTRICAL 3611 ELECTRICAL MACH AND EQUIPMENT 3911 MISC MANUFACTURED PRODUCTS 4029 WASTE AND SCRAP, NEC 4111 WATER 4112 QUARANTINES, VECT 4119 EMPTY CONTAINERS	179,551 5 20 76 11 1 126 12 73 3,985 16,376 54 1,179 172 503,462	179,551 5 20 76 11 1 126 12 73 3,985 16,376 54 1,179 172 503,462	
ENCINA, CALIF.		2915 RESIDUAL FUEL OIL 4111 WATER	253,094 352	253,094 352	

*Waterborne Commerce of the United States, 1986*  
**SACRAMENTO, CA, DISTRICT**

SACRAMENTO RIVER, CALIF., (INCLUDING COMMERCE OF  
 SACRAMENTO RIVER DEEPWATER SHIP CHANNEL AND THE  
 PORT OF SACRAMENTO, CALIF.)

SECTION INCLUDED: FROM MOUTH OF RIVER TO RED BLUFF VIA RIVER ROUTE; A DISTANCE OF 268 MILES; FROM MOUTH OF CACHE SLOUGH TO WASHINGTON LAKE VIA SACRAMENTO RIVER DEEPWATER SHIP CHANNEL, A DISTANCE OF 29.9 MILES, CONTROLLING DEPTH: MOUTH OF RIVER TO CACHE SLOUGH, 29 FEET; MOUTH OF CACHE SLOUGH TO WASHINGTON LAKE VIA SACRAMENTO RIVER DEEPWATER SHIP CHANNEL, 29 FEET; MOUTH OF CACHE SLOUGH TO SACRAMENTO VIA RIVER ROUTE, 10 FEET; SACRAMENTO TO COLUSA, 5 FEET IN LOW WATER SEASON; COLUSA TO CHICO LANDING, 3 FEET; CHICO LANDING TO RED BLUFF, 1.5 FEET, PROJECT DEPTH: 30 FEET FROM MOUTH OF RIVER TO CACHE SLOUGH; 30 FEET FROM CACHE SLOUGH TO WASHINGTON LAKE VIA SACRAMENTO RIVER DEEPWATER SHIP CHANNEL; 10 FEET FROM MOUTH OF CACHE SLOUGH TO SACRAMENTO VIA RIVER ROUTE; 6 FEET FROM SACRAMENTO TO COLUSA; 5 FEET FROM COLUSA TO CHICO LANDINGS; SUCH DEPTHS AS PRACTICABLE FROM CHICO LANDING TO RED BLUFF.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977-----	1,602,291	1982-----	2,016,475
1978-----	1,760,717	1983-----	1,838,583
1979-----	2,065,089	1984-----	1,648,766
1980-----	2,964,769	1985-----	1,749,349
1981-----	3,118,927	1986-----	1,208,832

\* PASSENGERS--14,770.

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC					
		IMPORTS	EXPORTS	COASTWISE		INTERNAL		UPBOUND	DOWNBOUND
				RECEIPTS	SHIPMENTS	INBOUND	OUTBOUND		
TOTAL-----	1,208,832	44,538	592,736	306,273	70,977	136,500	55,808	1,000	1,000
0105 RICE-----	350,370	-----	299,786	-----	50,592	-----	-----	-----	-----
0119 OILSEEDS, NEC-----	27,885	-----	27,885	-----	-----	-----	-----	-----	-----
0129 FIELD CROPS, NEC-----	14	-----	14	-----	-----	-----	-----	-----	-----
0131 FRESH FRUITS-----	56	-----	56	-----	-----	-----	-----	-----	-----
1442 SAND, GRAVEL, CRUSHED ROCK-----	11,200	-----	-----	-----	-----	1,600	9,600	-----	-----
1499 NONMETALLIC MINERALS, NEC-----	419	-----	419	-----	-----	-----	-----	-----	-----
2022 DRIED MILK AND CREAM-----	437	-----	437	-----	-----	-----	-----	-----	-----
2039 PREP FRUIT AND VEG JUICE, NEC-----	374	-----	374	-----	-----	-----	-----	-----	-----
2042 ANIMAL FEEDS-----	27,614	-----	27,614	-----	-----	-----	-----	-----	-----
2081 ALCOHOLIC BEVERAGES-----	11	-----	11	-----	-----	-----	-----	-----	-----
2099 VARIOUS FOOD PRODUCTS-----	13,825	-----	13,825	-----	-----	-----	-----	-----	-----
2411 LOOS-----	75,338	-----	75,338	-----	-----	-----	-----	-----	-----
2416 WOOD CHIPS, STAVES, HOLDINGS-----	146,343	-----	146,343	-----	-----	-----	-----	-----	-----
2421 LUMBER-----	1,128	1,118	10	-----	-----	-----	-----	-----	-----
2491 WOOD MANUFACTURES, NEC-----	66	-----	66	-----	-----	-----	-----	-----	-----
2631 PAPER AND PAPERBOARD-----	8	-----	8	-----	-----	-----	-----	-----	-----
2819 BASIC CHEMICALS AND PRFD, NEC-----	155,441	-----	155,441	-----	-----	-----	-----	-----	-----
2851 PAINTS-----	8	-----	8	-----	-----	-----	-----	-----	-----
2871 NITROGENOUS CHEM FERTILIZERS-----	189,920	38,988	150,832	-----	-----	-----	-----	-----	-----
2872 POTASSIC CHEM FERTILIZERS-----	4,398	4,398	-----	-----	-----	-----	-----	-----	-----
2879 FERTILIZER AND MATERIALS, NEC-----	7,458	-----	7,458	-----	-----	-----	-----	-----	-----
2991 PETROLEUM AND COAL PROD, NEC-----	12,927	-----	12,927	-----	-----	-----	-----	-----	-----
3011 RUBBER AND MISC PLASTIC PROD-----	23	22	7	-----	-----	-----	-----	-----	-----
3111 LEATHER AND LEATHER PRODUCTS-----	11	-----	11	-----	-----	-----	-----	-----	-----
3211 GLASS AND GLASS PRODUCTS-----	12	-----	12	-----	-----	-----	-----	-----	-----
3291 MISC NONMETALLIC MINERAL PROD-----	27,158	-----	-----	-----	-----	27,158	-----	-----	-----
3411 FABRICATED METAL PRODUCTS-----	12	12	-----	-----	-----	-----	-----	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	1,380	-----	330	-----	-----	50	-----	1,000	-----
3611 ELECTRICAL MACH. & EQUIP-----	2	-----	2	-----	-----	-----	-----	-----	-----
3791 MISC TRANSPORTATION EQUIPMENT-----	10	-----	10	-----	-----	-----	-----	-----	-----
3811 INSTN, TIME, PHOTO, OPT GOODS-----	1	-----	1	-----	-----	-----	-----	-----	-----
3911 MISC MANUFACTURED PRODUCTS-----	1	-----	1	-----	-----	-----	-----	-----	-----
4612 NONFERROUS METAL SCRAP-----	45	-----	45	-----	-----	-----	-----	-----	-----
4024 PAPER WASTE AND SCRAP-----	94	-----	94	-----	-----	-----	-----	-----	-----
4112 COMMODITIES, NEC-----	33	-----	33	-----	-----	-----	-----	-----	-----
4118 WATERWAY IMPROVEMENT MATER-----	154,900	-----	-----	-----	134,900	19,000	1,000	-----	-----
TOTAL TON-MILES,	45,688,349								

SACRAMENTO RIVER DEEPWATER SHIP CHANNEL, CALIF.  
 (INCLUDED IN SACRAMENTO RIVER, CALIF.)

SECTION INCLUDED: A DEEPWATER SHIP CHANNEL FROM SUISUN BAY TO THE INLAND HARBOR AT SACRAMENTO, A DISTANCE OF 43 MILES; A TRIANGULAR-SHAPED DEEP DRAFT HARBOR AND TURNING BASIN LOCATED AT WEST SACRAMENTO; A 1.5 MILE-LONG BARGE CANAL WITH NAVIGATION LOCK CONNECTING THE DEEP DRAFT HARBOR WITH THE SACRAMENTO RIVER, CONTROLLING DEPTH: 29 FEET IN THE DEEPWATER SHIP CHANNEL AND TRIANGULAR-SHAPED HARBOR AND TURNING BASIN; 13 FEET IN THE BARGE CANAL. PROJECT DEPTH: 30 FEET IN THE DEEPWATER SHIP CHANNEL AND TRIANGULAR-SHAPED HARBOR AND TURNING BASIN; 13 FEET IN THE BARGE CANAL.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977-----	1,481,228	1982-----	1,928,115
1978-----	1,550,142	1983-----	1,833,859
1979-----	1,779,124	1984-----	1,622,721
1980-----	2,948,802	1985-----	1,893,081
1981-----	3,111,912	1986-----	976,105

## SACRAMENTO, CA, DISTRICT

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SACRAMENTO RIVER DEEPWATER SHIP CHANNEL, CALIF.  
(INCLUDED IN SACRAMENTO RIVER, CALIF.)--CONTINUED

## FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		INTERNAL THROUGH SHIPMENTS	CARRIER UPBOUND	CARRIER DOWNBOUND
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS			
TOTAL	976,105	44,538	592,736	306,273	22,558	1,009	9,000	
0105 RICE	314,886		299,766		15,100			
0119 OILSEEDS, NEC	27,885		27,885					
0129 FIELD CROPS, NEC	14		14					
0131 FRESH FRUITS	56		56					
1442 SAND, GRAVEL, CRUSHED ROCK	1,000							1,000
1499 NONMETALLIC MINERALS, NEC	419		419					
2022 DRIED MILK AND CREAM	437		437					
2039 PREP FRUIT AND VEG JUICE, NEC	374		374					
2042 ANIMAL FEEDS	27,614		27,614					
2051 ALCOHOLIC BEVERAGES	11		11					
2099 MISCELLANEOUS FOOD PRODUCTS	13,825		13,825					
2411 LOGS	75,338		75,338					
2416 WOOD CHIPS, STAVES, HOLDINGS	146,343		146,343					
2421 LUMBER	1,128	1,118	10					
2491 AGG. MANUFACTURES, NEC	66		66					
2631 PAPER AND PAPERBOARD	4		4					
2819 BASIC CHEMICALS AND PROD, NEC	155,441		155,441					
2851 PAINTS	8		8					
2871 NITROGENOUS CHEM FERTILIZERS	189,820	38,988	150,832					
2872 POTASSIC CHEM FERTILIZERS	4,398	4,398						
2879 FERTILIZER AND MATERIALS, NEC	7,458					7,458		
5011 RUBBER AND MISC PLASTIC PROD	29	22	7					
3111 LEATHER AND LEATHER PRODUCTS	11		11					
3211 GLASS AND GLASS PRODUCTS	12		12					
3411 FABRICATED METAL PRODUCTS	12	12						
3511 MACHINERY, EXCEPT ELECTRICAL	1,330		330				1,000	
3611 ELECTRICAL MACH AND EQUIP	2		2					
3791 MISC TRANSPORTATION EQUIPMENT	10		10					
3811 INSTN, TIME, PHOTO, OPT GUARDS	1		1					
3911 MISC MANUFACTURED PRODUCTS	1		1					
4012 NONFERROUS METAL SCRAP	45		45					
4024 PAPER WASTE AND SCRAPS	94		94					
4112 COMMODITIES, NEC	33		33					
4118 WATERWAY IMPROVEMENT MAT	8,600							8,000
TOTAL TON-MILES	40,025,305							

SACRAMENTO, CALIF. (INCLUDED IN SACRAMENTO RIVER, CALIF.)

SECTION INCLUDED: A TRIANGULAR-SHADED HARBOR AND TURNING BASIN AT WASHINGTON LAKE, WEST SACRAMENTO, ADJACENT TO CHANNELS A CONNECTING BARGE CANAL TO THE SACRAMENTO RIVER SHALLOW DRAFT CHANNEL; THENCE UPSTREAM TO A POINT APPROXIMATELY 6.6 MILES UPSTREAM AT BRYTE, CONTROLLING DEPTHS 29 FEET IN THE DEEPWATER CHANNEL HARBOUR AND TURNING BASIN; 13 FEET IN THE CONNECTING BARGE CANAL; 10 FEET IN THE SHALLOW DRAFT CHANNEL. PROJECT DEPTHS 30 FEET IN THE DEEPWATER CHANNEL HARBOUR AND TURNING BASIN; 13 FEET IN THE CONNECTING BARGE CANAL; 10 FEET IN THE SHALLOW DRAFT CHANNEL.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977	1,481,691	1982	1,948,965
1978	1,657,631	1983	1,822,496
1979	2,030,770	1987	1,622,929
1980	2,946,802	1985	1,497,026
1981	3,113,425	1986	1,514,524

+ PASSENGERS--10,582.

## FREIGHT TRAFFIC, 1985

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		CARRIER UPBOUND	CARRIER DOWNBOUND
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS		
TOTAL	1,014,524	44,538	592,736	306,273	73,977		
0105 RICE	350,378		299,766		54,592		
0119 OILSEEDS, NEC	27,885		27,885				
0129 FIELD CROPS, NEC	14		14				
0131 FRESH FRUITS	56		56				
1442 SAND, GRAVEL, CRUSHED ROCK	419		419				
1499 NONMETALLIC MINERALS, NEC	437		437				
2022 DRIED MILK AND CREAM	374		374				
2039 PREP FRUIT AND VEG JUICE, NEC	27,614		27,614				
2042 ANIMAL FEEDS	11		11				
2051 ALCOHOLIC BEVERAGES	13,825		13,825				
2099 MISCELLANEOUS FOOD PRODUCTS	75,338		75,338				
2411 LOGS	146,343		146,343				
2416 WOOD CHIPS, STAVES, HOLDINGS	1,128	1,118	10				
2421 LUMBER	66		66				
2491 AGG. MANUFACTURES, NEC	4		4				
2631 PAPER AND PAPERBOARD	155,441		155,441				
2819 BASIC CHEMICALS AND PROD, NEC	8		8				
2851 PAINTS	189,820	38,988	150,832				
2871 NITROGENOUS CHEM FERTILIZERS	4,398	4,398					
2872 POTASSIC CHEM FERTILIZERS	7,458						

*Waterborne Commerce of the United States, 1986*

SACRAMENTO, CALIF. (INCLUDED IN SACRAMENTO RIVER, CALIF.)--CONTINUED

## FREIGHT TRAFFIC, 1986--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC	
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS
		COASTWISE			
2879 FERTILIZER AND MATERIALS, NEC-----	7,458	-----	-----	-----	7,458
2991 PETROLEUM AND COAL PROD, NEC-----	12,927	-----	-----	-----	12,927
3011 RUBBER AND MISC PLASTIC PROD-----	29	22	7	-----	-----
3111 LEATHER AND LEATHER PRODUCTS-----	11	-----	11	-----	-----
3211 GLASS AND GLASS PRODUCTS-----	12	-----	12	-----	-----
3411 FABRICATED METAL PRODUCTS-----	12	12	-----	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	330	-----	350	-----	-----
3611 ELECTRICAL MACH AND EQUIP-----	2	-----	2	-----	-----
3791 MISC TRANSPORTATION EQUIPMENT-----	10	-----	10	-----	-----
3811 INSTR, TIME, PHOTO, OPT GOODS-----	1	-----	1	-----	-----
3911 MISC MANUFACTURED PRODUCTS-----	1	-----	1	-----	-----
4012 NONFERROUS METAL SCRAP-----	45	-----	45	-----	-----
4024 PAPER WASTE AND SCRAP-----	94	-----	94	-----	-----
4112 COMMODITIES, NEC-----	33	-----	33	-----	-----

SAN JOAQUIN RIVER, CALIF. (INCLUDING COMMERCE OF  
PORT OF STOCKTON, CALIF.)

SECTION INCLUDED: FROM MOUTH OF NEW YORK SLOUGH TO CITY OF STOCKTON, 41 MILES; FROM STOCKTON CHANNEL TO HILLS FERRY, 84 MILES.  
 CONTROLLING DEPTH: MOUTH OF RIVER TO MORMON CHANNEL, STOCKTON, 35 FEET; OTHER CONNECTING CHANNELS, 2 FEET TO 9 FEET; TO EDISON STREET,  
 22 FEET. PROJECT DEPTH: 35 FEET FROM THE MOUTH OF NEW YORK SLOUGH TO MORMON CHANNEL AT STOCKTON; 30 FEET FROM MORMON CHANNEL TO EDISON  
 STREETS; OTHER CONNECTING CHANNELS, 9 FEET.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977-----	3,507,137	1982-----	2,759,139
1978-----	2,636,522	1983-----	3,277,363
1979-----	3,104,550	1984-----	2,623,372
1980-----	3,920,171	1985-----	2,516,028
1981-----	3,883,148	1986-----	2,430,013

\* PASSENGERS--8,176.

## FREIGHT TRAFFIC, 1986

## FOREIGN

(SHORT TONS)

COMMODITY	TOTAL	IMPORTS	EXPORTS			
				1,772,422	1,012,704	759,718
0102 BARLEY AND RYE-----	17,224	17,224	-----	-----	-----	-----
0105 RICE-----	3,979	-----	3,979	-----	-----	-----
1051 ALUMINUM ORES, CONCENTRATES-----	8,075	8,075	-----	-----	-----	-----
1451 CLAY-----	3,306	-----	3,306	-----	-----	-----
1492 SULPHUR, DRY-----	276,332	-----	276,332	-----	-----	-----
1494 GYPSUM, CRUDE AND PLASTERS-----	543,318	543,318	-----	-----	-----	-----
2012 MEAT AND PRODUCTS, NEC-----	57	57	-----	-----	-----	-----
2022 DRIED MILK AND CREAM-----	2,147	-----	2,147	-----	-----	-----
2049 GRAIN MILL PRODUCTS, NEC-----	13	13	-----	-----	-----	-----
2061 SUGAR-----	11,883	11,883	-----	-----	-----	-----
2081 ALCOHOLIC BEVERAGES-----	265	265	-----	-----	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	2	-----	2	-----	-----	-----
2211 BASIC TEXTILE PRODUCTS-----	8	8	-----	-----	-----	-----
2311 APPAREL-----	5	5	-----	-----	-----	-----
2421 LUMBER-----	24	-----	24	-----	-----	-----
2491 WOOD MANUFACTURES, NEC-----	3	3	-----	-----	-----	-----
2511 FURNITURE AND FIXTURES-----	59	59	-----	-----	-----	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	4	4	-----	-----	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	175,166	175,166	-----	-----	-----	-----
2871 NITROGENOUS CHEM FERTILIZERS-----	117,873	117,873	-----	-----	-----	-----
2920 COKE, PETROLEUM COKE-----	389,353	-----	389,353	-----	-----	-----
3011 RUBBER AND MISC PLASTIC PROD-----	3	3	-----	-----	-----	-----
3111 LEATHER AND LEATHER PRODUCTS-----	13	13	-----	-----	-----	-----
3211 GLASS AND GLASS PRODUCTS-----	42	42	-----	-----	-----	-----
3241 BUILDING CEMENT-----	112,785	112,785	-----	-----	-----	-----
3251 STRUCTURAL CLAY PRODUCTS-----	20	20	-----	-----	-----	-----
3261 CUT STONE AND STONE PRODUCTS-----	10	10	-----	-----	-----	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	8,556	8,556	-----	-----	-----	-----
3324 ALUMINUM AND ALLOYS, UNWORKED-----	21	21	-----	-----	-----	-----
3411 FABRICATED METAL PRODUCTS-----	11	11	-----	-----	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	1,360	1,360	-----	-----	-----	-----
3611 ELECTRICAL MACH AND EQUIP-----	48	48	-----	-----	-----	-----
3811 INSTR, TIME, PHOTO, OPT GOODS-----	2	2	-----	-----	-----	-----
3911 MISC MANUFACTURED PRODUCTS-----	9	9	-----	-----	-----	-----
4011 IRON AND STEEL SCRAP-----	84,575	-----	84,575	-----	-----	-----
4012 NONFERROUS METAL SCRAP-----	15,869	15,869	-----	-----	-----	-----

TON-MILES, FOREIGN, 38,448,875.

## SACRAMENTO, CA, DISTRICT

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SAN JOAQUIN RIVER, CALIF. (INCLUDING CUMMFRCE OF  
PORT OF STOCKTON, CALIF.)--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

## DOMESTIC

(SHORT TONS)

COMMODITY	TOTAL	COASTWISE		INTERNAL		THROUGH		
		RECEIPTS	SHIPMENTS	INBOUND	OUTBOUND	UPBOUND	DOWNBOUND	
TOTAL-----	657,591	75,674	44,217	212,625	164,300	4,750	275	155,750
1402 SAND, GRAVEL, CRUSHED ROCK-----	136,400	-----	-----	-----	133,400	-----	-----	3,000
1491 SALT-----	39,600	-----	-----	39,600	-----	-----	-----	-----
2610 SODIUM HYDROXIDE-----	35,335	33,717	1,618	-----	-----	-----	-----	-----
2619 BASIC CHEMICALS AND PROD, NEC-----	47,660	33,680	14,186	-----	-----	-----	-----	-----
2861 GUM AND WOOD CHEMICALS-----	8,277	8,277	-----	-----	-----	-----	-----	-----
2915 RESIDUAL FUEL JTL-----	1,610	-----	-----	1,810	-----	-----	-----	-----
2991 PETROLEUM AND COAL PROD, NEC-----	26,413	-----	28,413	-----	-----	-----	-----	-----
3011 RUBBER AND MISC PLASTIC PROD-----	15	-----	-----	15	-----	-----	-----	-----
3291 MISC NONMETALLIC MINERAL PROD-----	1,300	-----	-----	-----	400	960	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	2,475	-----	-----	1,900	-----	250	275	50
4029 WASTE AND SCRAP, NEC-----	300	-----	-----	300	-----	-----	-----	-----
4118 AUTOMOBILE IMPROVEMENT MAT-----	355,600	-----	-----	169,000	30,500	3,600	-----	152,700
TON-MILES, DOMESTIC.	8,209,071	-----	-----	-----	-----	-----	-----	-----
TONS, ALL TRAFFIC,	2,430,013	-----	-----	-----	-----	-----	-----	-----
TON-MILES, ALL TRAFFIC,	46,657,940	-----	-----	-----	-----	-----	-----	-----

STOCKTON, CALIF. (INCLUDED IN SAN JOAQUIN RIVER, CALIF.)

SECTION INCLUDED: HARBOR AT STOCKTON (AND VICINITY). CONTROLLING DEPTHS: 35 FEET IN STOCKTON CHANNEL UP TO MOUTH OF MORMON CHANNEL; 8 FEET IN MORMON CHANNEL; 8 FEET IN FREMONT CHANNEL, MCLEOD LAKE AND IN THE HEAD OF STOCKTON CHANNEL. PROJECT DEPTHS (INCLUDED IN SAN JOAQUIN RIVER PROJECT).

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977-----	1,520,991	1982-----	1,335,121
1978-----	1,554,462	1983-----	1,102,865
1979-----	1,617,508	1984-----	927,049
1980-----	1,995,435	1985-----	749,857
1981-----	1,950,947	1986-----	867,722

\* PASSENGERS--8,170.

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC	
		IMPORTS	EXPORTS	COASTWISE	INTERNAL
				RECEIPTS	RECEIPTS
TOTAL-----	867,722	480,941	398,264	27,617	900
0102 BARLEY AND RYE-----	17,224	17,224	-----	-----	-----
0105 RICE-----	3,979	-----	3,979	-----	-----
1451 CLAY-----	3,306	-----	3,306	-----	-----
1492 SULPHUR, DRY-----	276,532	-----	276,332	-----	-----
2012 MEAT AND PRODUCTS, NEC-----	57	57	-----	-----	-----
2022 DRIED MILK AND CREAM-----	2,147	-----	2,147	-----	-----
2049 GHAIY MILL PRODUCTS, NEC-----	13	13	-----	-----	-----
2061 SUGAR-----	11,883	11,883	-----	-----	-----
2081 ALCOHOLIC BEVERAGES-----	265	265	-----	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	2	2	-----	-----	-----
2211 BASIC TEXTILE PRODUCTS-----	8	8	-----	-----	-----
2311 APPAREL-----	5	5	-----	-----	-----
2421 LUMBER-----	24	-----	24	-----	-----
2491 WOOD MANUFACTURES, NEC-----	3	3	-----	-----	-----
2511 FURNITURE AND FIXTURES-----	59	59	-----	-----	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	4	4	-----	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	190,031	170,691	-----	19,380	-----
2861 GUM AND WOOD CHEMICALS-----	6,277	-----	-----	8,277	-----
2871 NITROGENOUS CHEM FERTILIZERS-----	117,873	117,873	-----	-----	-----
2920 COKE, PETROLEUM COKE-----	27,899	-----	27,899	-----	-----
3011 RUBBER AND MISC PLASTIC PROD-----	3	3	-----	-----	-----
3111 LEATHER AND LEATHER PRODUCTS-----	13	13	-----	-----	-----
3211 GLASS AND GLASS PRODUCTS-----	42	42	-----	-----	-----
3241 BUILDING CEMENT-----	112,785	112,785	-----	-----	-----
3251 STRUCTURAL CLAY PRODUCTS-----	20	20	-----	-----	-----
3261 CUT STONE AND STONE PRODUCTS-----	10	10	-----	-----	-----
3291 MISC NONMETALLIC MINERAL PROD-----	900	-----	-----	900	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	8,558	8,558	-----	-----	-----
3411 FABRICATED METAL PRODUCTS-----	11	11	-----	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	1,360	1,360	-----	-----	-----
3611 ELECTRICAL MACH AND EQUIP-----	43	43	-----	-----	-----
3811 INSTR, TIME, PHOTO, OPR GOODS-----	2	2	-----	-----	-----
3911 MISC MANUFACTURED PRODUCTS-----	9	9	-----	-----	-----
4011 IRON AND STEEL SCRAP-----	84,575	-----	84,575	-----	-----

*Waterborne Commerce of the United States, 1986*

## OTHER HARBOURS AND WATERWAYS

HARBOR OR WATERWAY	COMMODITY	TONS	TOTAL TON-MILES	PASSENGERS
PROJECT				
MIDDLE RIVER, CALIF.-----	4118 WATERWAY IMPROVEMENT MAT-----	32,100	89,500	-----
MOKELOMNE RIVER, CALIF.-----	1442 SAND, GRAVEL, CRUSHED ROCK----- 3511 MACHINERY, EXCEPT ELECTRICAL----- 4118 WATERWAY IMPROVEMENT MAT-----	1,000 50 85,000	----- ----- -----	-----
	TOTAL-----	86,050	772,000	-----
OLD RIVER, CALIF.-----	1442 SAND, GRAVEL, CRUSHED ROCK----- 4118 WATERWAY IMPROVEMENT MAT-----	2,000 50,500	----- -----	-----
	TOTAL-----	56,500	247,300	-----

# SAN FRANCISCO, CA, DISTRICT

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## TOTAL WATERBORNE COMMERCE OF THE SAN FRANCISCO BAY AND DELTA AREAS

CALENDAR YEAR 1986

(SHORT TONS)

LOCALITY	FOREIGN		DOMESTIC			LOCAL	TOTAL	PERCENT	THROUGH TRAFFIC*				
	IMPORTS	EXPORTS	COASTWISE		INTERNAL RECEIPTS AND SHIPMENTS								
			RECEIPTS	SHIPMENTS									
SAN RAFAEL CREEK, CALIF.													
PETALUMA RIVER, CALIF.			SU	980	188,300		189,330	.24					
VAPA RIVER, CALIF.					41,807		41,807	.05					
CARGUIÑEZ STRAIT, CALIF.	1,408,252	2,748,797	8,056,734	2,169,198	3,617,637	107,777	18,108,395	22.48	5,767,057				
BUTSUN DAY CHANNEL, CALIF.		328,120	205,663	1,281,911	453,201		2,348,695	2.97	3,556,601				
BUTSUN CHANNEL, CALIF.					18,707		18,707	.02					
SACRAMENTO RIVER, CALIF.	44,538	562,736	306,273	70,977	192,308	2,000	1,208,832	1.53					
SAN JOAQUIN RIVER, CALIF., AND TRIB.	1,012,704	759,718	75,674	44,217	549,075	7,525	2,448,913	3.09	155,750				
SAN PABLO BAY AND MARE ISLAND STRAIT, CALIF.													
RICHMOND HARBOR, CALIF.	182,091	447,401	2,483,493	2,079,006	1,234,146	11,700	6,437,837	8.14	23,307,275				
JAKLAND HARBOR, CALIF.	2,079,741	3,220,481	7,022,870	2,305,361	4,088,031	36,027	18,832,511	23.80					
VERMILION SLOUGH, CALIF.	2,885,597	2,776,249	318,315	804,279	1,463,878		8,248,319	10.42					
CUYOTE HILL SLOUGH, CALIF.													
ALVISO SLOUGH, CALIF.													
REDWOOD CITY HARBOR, CALIF.	86,950	212,996		113,834	107,197		520,577	.66					
SAN FRANCISCO HARBOR, CALIF.	1,006,172	466,922	55	26	1,261,727	17,000	2,773,902	3.51					
SAN FRANCISCO BAY, OTHER PORTS, CALIF.	96,954	133,900	6,402,688	192,041	10,308,766	821,270	17,955,619	22.69					
BERKELEY, CALIF.													
TOTAL (UNADJUSTED)	8,892,999	11,689,320	24,951,816	9,141,430	23,548,780	1,003,299	79,133,648		32,786,603				
PERCENT (UNADJUSTED)	11.12	14.77	31.53	11.55	29.76	1.27		100.00					
NET VOLUME OF TONNAGE FOR THE AREA	8,892,999	11,689,320	24,951,816	9,141,430	11,886,683	1,003,299	67,475,547						
PERCENT (ADJUSTED)	13.05	17.32	36.98	13.55	17.61	1.49		100.00					

\* NOT INCLUDED IN THE TOTAL TONNAGE OF THE BAY AND DELTA AREA.

\*\* TRIBUTARIES TO SAN JOAQUIN RIVER INCLUDE MOKELEUNE, MIDDLE, AND OLD RIVERS.

\*\*\* ADJUSTED TO NET VOLUME BY EXCLUDING ONE-HALF OF INTERNAL TRAFFIC MOVED BETWEEN PORTS AND WATERWAYS OF THE SAN FRANCISCO BAY AND DELTA AREAS.

## SAN FRANCISCO BAY ENTRANCE, CALIF.

SECTION INCLUDED: BONITA, MAIN SHIP AND SOUTH CHANNELS. CONTROLLING DEPTHS: BONITA CHANNEL, 39 FEET; MAIN SHIP CHANNEL, 52.6 FEET. PROJECT DEPTH: MAIN SHIP CHANNEL, 55 FEET. BONITA AND SOUTH CHANNELS, NO FEDERAL PROJECT.

## COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	FOREIGN THROUGH		DOMESTIC THROUGH		TOTAL	YEAR	FOREIGN THROUGH		DOMESTIC THROUGH		TOTAL
	UPBOUND	DOWNBOUND	UPBOUND	DOWNBOUND			UPBOUND	DOWNBOUND	UPBOUND	DOWNBOUND	
1977--	23,341,389	6,205,983	13,596,097	13,040,045	56,183,514	1982--	5,915,358	8,712,056	18,565,931	15,157,937	48,351,282
1978--	11,508,743	6,630,775	20,273,094	13,964,191	52,377,403	1983--	7,739,106	10,373,664	16,772,362	12,928,404	47,813,536
1979--	10,263,721	8,332,082	22,401,040	14,445,334	55,482,177	1984--	9,315,619	10,380,646	20,370,476	9,331,116	49,361,857
1980--	8,765,796	0,543,056	20,799,552	17,888,162	57,996,568	1985--	7,562,221	10,456,891	22,274,582	10,173,330	50,467,024
1981--	6,789,674	0,649,681	20,487,338	17,740,333	55,667,026	1986--	8,802,999	11,689,320	24,951,816	9,141,430	54,814,151

## SAN FRANCISCO HARBOR, CALIF.

SECTION INCLUDED: FROM FORT POINT TO SAN FRANCISCO AIRPORT ON THE WEST SIDE OF THE SAN FRANCISCO BAY. CONTROLLING DEPTHS: MAIN SHIP CHANNEL, 53.4 FEET; PRESIDIO SHOAL, 35.5 FEET; BLACK POINT SHOAL, 35.5 FEET; RINCON REEF ROCK (INNER), 41 FEET; RINCON REEF (OUTER), 42.5 FEET; BLOSSOM ROCK, 40 FEET; ALCATRAZ SHOAL, 34.5 FEET; ARCH ROCK, 36.2 FEET; HARDING ROCKS, 36.7 FEET; SHAG ROCKS 1 AND 2, 36.9 FEET; POINT KNOX SHOAL, 38.2 FEET; ISLAIS CREEK SHOAL, 26.0 FEET; CHANNEL AND BASIN AT SAN FRANCISCO AIRPORT, 6.8 FEET IN THE MAINTAINED 200-Foot WIDE SOUTHERLY PORTION; 8 FEET IN THE MAINTAINED PORTION OF TURNING BASIN, 8.6 FEET TO SEAPLANE RAMP. PROJECT DEPTH: 55 FEET IN ENTRANCE CHANNEL ACROSS THE BAR; 40 FEET ACROSS PRESIDIO SHOAL, BLACK POINT SHOAL, BLOSSOM ROCK, RINCON REEF ROCK, AND A PORTION OF ALCATRAZ SHOAL; 37 FEET ACROSS ARCH, SHAG, AND HARDING ROCKS; 35 FEET ACROSS RACDON SHOAL, AND THE WESTERN PART OF POINT KNOX SHOAL; 35 FEET ACROSS ISLAIS CREEK SHOAL; 10 FEET TO THE SAN FRANCISCO AIRPORT.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	ADDITIONAL TRAFFIC			YEAR	TONS	PASSENGERS	ADDITIONAL TRAFFIC		
			CAR FERRY-RAILROAD CARS		TOTAL				CAR FERRY-RAILROAD CARS		TOTAL
EMPTY	LOADED	EMPTY	LOADED	YEAR	TONS	PASSENGERS	EMPTY	LOADED	EMPTY		
1977--	1,931,693	27,030	8,603	9,638	18,241	1982--	1,654,777	2,141,502	1,403	1,490	2,693
1978--	2,317,505	33,253	6,750	9,522	18,272	1983--	1,464,514	3,057,723	830	767	1,597
1979--	2,353,799	-----	3,650	4,268	7,918	1984--	2,160,342	3,471,199	203	177	380
1980--	1,752,193	-----	23,134	24,327	47,061	1985--	3,762,481	1,484,000	-----	-----	-----
1981--	1,567,905	1,707,174	2,160	2,304	4,464	1986--	2,773,902	5,350,953	-----	-----	-----

## Waterborne Commerce of the United States, 1986

SAN FRANCISCO HARBOR, CALIF.--CONTINUED

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC				LOCAL	
		IMPORTS	EXPORTS	COASTWISE		INTERNAL			
				RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS		
TOTAL-----	2,775,902	1,006,172	466,922	55	26	436,587	885,140	17,000	
0101 COTTON, RAG-----	22,643	22,643	-----	-----	-----	-----	-----	-----	
0102 BARLEY AND RYE-----	2	2	-----	-----	-----	-----	-----	-----	
0103 CORN-----	273	273	-----	-----	-----	-----	-----	-----	
0105 RICE-----	10,523	8,260	2,263	-----	-----	-----	-----	-----	
0107 MEAT-----	90	90	-----	-----	-----	-----	-----	-----	
0111 SOYBEANS-----	249	249	-----	-----	-----	-----	-----	-----	
0119 OILSEEDS, NEC-----	755	662	93	-----	-----	-----	-----	-----	
0129 FIELD CROPS, NEC-----	2,352	159	2,193	-----	-----	-----	-----	-----	
0131 FRESH FRUITS-----	5,614	283	5,331	-----	-----	-----	-----	-----	
0132 BANANAS AND PLANTAINS-----	80	40	40	-----	-----	-----	-----	-----	
0133 COFFEE-----	85,117	84,770	347	-----	-----	-----	-----	-----	
0134 COCOA BEANS-----	8,223	8,056	167	-----	-----	-----	-----	-----	
0141 FRESH AND FROZEN VEGETABLES-----	7,916	1,179	6,737	-----	-----	-----	-----	-----	
0161 ANIMALS AND PRODUCTS, NEC-----	1,242	752	450	-----	-----	-----	-----	-----	
0191 MISCELLANEOUS FARM PRODUCTS-----	228	211	17	-----	-----	-----	-----	-----	
0861 CRUDE RUBBER AND ALLIED GUMS-----	306	223	85	-----	-----	-----	-----	-----	
0861 FOREST PRODUCTS, NEC-----	519	473	46	-----	-----	-----	-----	-----	
0911 FRESH FISH, EXCEPT SHELLFISH-----	1,117	698	219	-----	-----	-----	-----	-----	
0912 SHELLFISH, EXCEPT PREPARED-----	583	421	162	-----	-----	-----	-----	-----	
0931 MARINE SHELLS, UNMANUFACTURED-----	594	18	576	-----	-----	-----	-----	-----	
1011 IRON ORE AND CONCENTRATES-----	29	29	-----	-----	-----	-----	-----	-----	
1051 ALUMINUM ORES, CONCENTRATES-----	36	19	17	-----	-----	-----	-----	-----	
1091 NONFERROUS ORES, CONCENT., NEC-----	3,141	1,888	1,293	-----	-----	-----	-----	-----	
1412 BUILDING STONE, UNWORKED-----	8	8	8	-----	-----	-----	-----	-----	
1462 SAND, GRAVEL, CRUSHED ROCK-----	207,607	102	80	-----	-----	203,850	3,575	-----	
1451 CLAY-----	1,246	82	1,164	-----	-----	-----	-----	-----	
1471 PHOSPHATE ROCK-----	29	22	7	-----	-----	-----	-----	-----	
1479 NATURAL FERTILIZER MATS, NEC-----	5,774	5,774	-----	-----	-----	-----	-----	-----	
1492 SULPHUR, DRY-----	975	975	-----	-----	-----	-----	-----	-----	
1494 GYPSUM, CRUDE AND PLASTERS-----	227	18	209	-----	-----	-----	-----	-----	
1499 NONMETALLIC MINERALS, NEC-----	25,090	808	24,282	-----	-----	-----	-----	-----	
1911 ORDNANCE AND ACCESSORIES-----	146	78	60	-----	-----	-----	-----	-----	
2111 MEAT, FRESH, CHILLED, FROZEN-----	18,000	15,197	2,803	-----	-----	-----	-----	-----	
2012 MEAT AND PRODUCTS, NEC-----	7,675	7,729	146	-----	-----	-----	-----	-----	
2014 TALLOW, ANIMAL FATS AND DILS-----	19,579	-----	19,579	-----	-----	-----	-----	-----	
2015 ANIMAL BY-PRODUCTS, NEC-----	3,837	7	3,830	-----	-----	-----	-----	-----	
2021 DAIRY PRODUCTS, NEC-----	499	470	29	-----	-----	-----	-----	-----	
2022 DRIED MILK AND CREAM-----	9,541	20	9,521	-----	-----	-----	-----	-----	
2031 FISH AND SHELLFISH, PREPARED-----	5,232	4,978	254	-----	-----	-----	-----	-----	
2034 VEGETABLES AND PREP., NEC-----	24,949	12,606	12,343	-----	-----	-----	-----	-----	
2039 PREP FRUIT AND VEG JUICE, NEC-----	36,291	19,022	17,269	-----	-----	-----	-----	-----	
2061 WHEAT FLOUR AND SEMOLINA-----	1,583	-----	1,583	-----	-----	-----	-----	-----	
2062 ANIMAL FEEDS-----	92,813	46,959	45,854	-----	-----	-----	-----	-----	
2089 GRAIN MILL PRODUCTS, NEC-----	5,584	4,215	1,364	-----	-----	-----	-----	-----	
2091 SUGAR-----	20,016	19,966	70	-----	-----	-----	-----	-----	
2091 ALCOHOLIC BEVERAGES-----	17,240	13,205	4,035	-----	-----	-----	-----	-----	
2091 VEGETABLE OILS, MARG, SHORT-----	30,663	27,732	3,131	-----	-----	-----	-----	-----	
2095 ICE-----	346	346	-----	-----	-----	-----	-----	-----	
2099 MISCELLANEOUS FOOD PRODUCTS-----	35,536	16,938	18,598	-----	-----	-----	-----	-----	
2111 TOBACCO MANUFACTURES-----	53	9	44	-----	-----	-----	-----	-----	
2211 BASIC TEXTILE PRODUCTS-----	8,579	7,918	661	-----	-----	-----	-----	-----	
2212 TEXTILE FIBERS, NEC-----	251	-----	251	-----	-----	-----	-----	-----	
2311 APPAREL-----	5,284	5,002	282	-----	-----	-----	-----	-----	
2411 LOGS-----	31	-----	31	-----	-----	-----	-----	-----	
2413 FUEL WOOD, CHARCOAL, WASTES-----	556	498	58	-----	-----	-----	-----	-----	
2416 WOOD CHIPS, STAVES, HOLDINGS-----	327	238	89	-----	-----	-----	-----	-----	
2421 LUMBER-----	7,383	1,030	6,353	-----	-----	-----	-----	-----	
2431 WEEVER, PLYWOOD, WORKED WOOD-----	972	772	200	-----	-----	-----	-----	-----	
2491 WOOD MANUFACTURES, NEC-----	18,777	3,172	15,605	-----	-----	-----	-----	-----	
2511 FURNITURE AND FIXTURES-----	7,623	7,037	586	-----	-----	-----	-----	-----	
2611 PULP-----	2,603	407	2,396	-----	-----	-----	-----	-----	
2621 STANDARD NEWSPRINT PAPER-----	230,173	228,280	1,693	-----	-----	-----	-----	-----	
2631 PAPER AND PAPERBOARD-----	26,705	13,962	12,743	-----	-----	-----	-----	-----	
2691 PULP AND PAPER PRODUCTS, NEC-----	2,956	575	2,381	-----	-----	-----	-----	-----	
2711 PRIVATE WATER-----	1,661	1,277	384	-----	-----	-----	-----	-----	
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	290	186	104	-----	-----	-----	-----	-----	
2813 ALCOHOLS-----	54	-----	54	-----	-----	-----	-----	-----	
2817 BUTADIENE AND TOLUENE-----	4,667	4,405	262	-----	-----	-----	-----	-----	
2819 BASIC CHEMICALS AND PROD, NEC-----	12,408	1,405	3	-----	-----	-----	-----	-----	
2819 SYNTHETIC RUBBER-----	47,657	19,223	28,634	-----	-----	-----	-----	-----	
2821 PLASTIC MATERIALS-----	17,103	2,105	14,997	-----	-----	-----	-----	-----	
2822 SYNTHETIC RUBBER-----	12,260	-----	12,260	-----	-----	-----	-----	-----	
2823 SYNTHETIC (MAN-MADE) FIBERS-----	76	-----	76	-----	-----	-----	-----	-----	
2831 DRUGS-----	1,677	706	771	-----	-----	-----	-----	-----	
2841 SOAP-----	1,299	381	918	-----	-----	-----	-----	-----	
2851 PAINTS-----	2,445	1,488	967	-----	-----	-----	-----	-----	
2861 GUM AND WOOD CHEMICALS-----	30	20	10	-----	-----	-----	-----	-----	
2871 INORGANIC CHEM FERTILIZERS-----	2,499	2,499	-----	-----	-----	-----	-----	-----	
2876 INSECTICIDES, DISINFECTANTS-----	2,642	1,193	1,249	-----	-----	-----	-----	-----	
2879 FERTILIZER AND MATERIALS, NEC-----	712	100	612	-----	-----	-----	-----	-----	
2911 MISCELLANEOUS CHEMICAL PROD-----	6,051	2,633	3,418	-----	-----	-----	-----	-----	
2911 GASOLINE-----	154,611	151,591	43	-----	-----	3,177	-----	-----	
2915 KEROSENE FUEL OIL-----	40	-----	40	-----	-----	108,302	4,054	-----	
2916 LUBRICATING OILS AND GREASES-----	1,533	-----	1,533	-----	-----	-----	-----	-----	
2921 LIQUEFIED GASES-----	202	-----	202	-----	-----	-----	-----	-----	
2951 ASPHALT BUILDING MATERIALS-----	118	-----	118	-----	-----	-----	-----	-----	
2991 PETROLEUM AND COAL PROD, NEC-----	1,417	139	1,276	-----	-----	-----	-----	-----	
3011 RUBBER AND MISC PLASTIC PROD-----	15,705	13,767	1,636	-----	-----	510	-----	-----	
3111 LEATHER AND LEATHER PRODUCTS-----	3,006	2,485	521	-----	-----	-----	-----	-----	

## SAN FRANCISCO, CA, DISTRICT

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## SAN FRANCISCO HARBOR, CALIF.--CONTINUED

## FREIGHT TRAFFIC, 1986--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC				LOCAL	
		IMPORTS	EXPORTS	COASTWISE		INTERNAL			
				RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS		
3211 GLASS AND GLASS PRODUCTS-----	3,673	2,536	1,137	-----	-----	-----	-----	-----	
3241 BUILDING CEMENT-----	110	-----	110	-----	-----	-----	-----	-----	
3251 STRUCTURAL CLAY PRODUCTS-----	5,182	4,919	663	-----	-----	-----	-----	-----	
3281 CUT STONE AND STONE PRODUCTS-----	4,366	4,362	4	-----	-----	-----	-----	-----	
3291 MISC NONMETALLIC MINERAL PROD-----	70,861	8,118	6,002	-----	-----	21,658	37,193	-----	
3314 IRON AND STEEL PRIMARY FORMS-----	115	110	5	-----	-----	-----	-----	-----	
3315 IRON, STEEL SHAPES, EXC SHEET-----	19,979	19,975	4	-----	-----	-----	-----	-----	
3316 IRON AND STEEL PLATES, SHEETS-----	8,958	-----	8,958	-----	-----	-----	-----	-----	
3317 IRON AND STEEL PIPE AND TUBE-----	16,723	1,082	637	-----	-----	-----	-----	17,000	
3318 FERROALLOYS-----	277	277	-----	-----	-----	-----	-----	-----	
3319 IRON AND STEEL PRODUCTS, NEC-----	1,369	1,167	202	-----	-----	-----	-----	-----	
3321 NONFERROUS METALS, NEC-----	223	62	161	-----	-----	-----	-----	-----	
3322 COPPER ALLOYS, UNWORKED-----	1,095	609	666	-----	-----	-----	-----	-----	
3324 ALUMINIUM AND ALLOYS, UNWORKED-----	3,605	3,425	180	-----	-----	-----	-----	-----	
3411 FABRICATED METAL PRODUCTS-----	30,091	26,061	3,122	6	-----	-----	-----	-----	
3511 MACHINERY, EXCEPT ELECTRICAL-----	46,764	34,138	12,602	20	4	-----	-----	-----	
3611 ELECTRICAL MACH AND EQUIP-----	36,711	31,485	7,226	-----	-----	-----	-----	-----	
3711 MOTOR VEHICLES, PARTS, EQUIP-----	46,046	37,916	5,128	-----	-----	-----	-----	-----	
3721 AIRCRAFT AND PARTS-----	145	6	139	-----	-----	-----	-----	-----	
3731 SHIPS AND BOATS-----	1,458	1,583	75	-----	-----	-----	-----	-----	
3791 MISC TRANSPORTATION EQUIPMENT-----	968	836	132	-----	-----	-----	-----	-----	
3811 INSTN, TIME, PHOTO, OPT GOODS-----	2,747	1,589	1,150	-----	-----	-----	-----	-----	
3911 MISC MANUFACTURED PRODUCTS-----	16,117	15,469	648	-----	-----	-----	-----	-----	
4011 IRON AND STEEL SCRAP-----	6,635	-----	6,635	-----	-----	-----	-----	-----	
4012 NONFERROUS METAL SCRAP-----	35,287	26	35,221	-----	-----	-----	-----	-----	
4022 TEXTILE WASTE, SCRAP, SHEEP-----	677	-----	677	-----	-----	-----	-----	-----	
4029 PAPER WASTE AND SCRAP-----	44,870	-----	44,870	-----	-----	-----	-----	760,400	
4029 WASTE AND SCRAP, NEC-----	764,400	-----	-----	-----	-----	-----	-----	900	
4111 WATER-----	900	-----	-----	-----	-----	-----	-----	-----	
4112 COMMODITIES, NEC-----	6,759	2,099	4,615	27	16	-----	99,500	35,018	
4118 WATERWAY IMPROVEMENT MAT-----	134,510	-----	-----	-----	-----	-----	-----	-----	
4999 DEPARTMENT OF DEFENSE AND SCI-----	2,366	-----	2,366	-----	-----	-----	-----	-----	

## REDWOOD CITY HARBOR, CALIF.

SECTION INCLUDED: SAN BRUNO SHOAL CHANNEL 500 FEET WIDE AND ABOUT 4 MILES LONG ACROSS; REDWOOD CITY HARBOR CHANNEL, A CHANNEL FROM DEEP WATER IN SAN FRANCISCO BAY TO STEINBERGER SLOUGH, CONTROLLING DEPTHS 29.4 FEET IN SAN BRUNO SHOAL CHANNEL 26.7 FEET IN SAN FRANCISCO BAY TO BEACON NO. 8A 25.2 FEET TO BEACON NO. 15 AND BEGINNING OF (OUTER) TURNING BASIN NO. 17 28.2 FEET IN TURNING BASIN NO. 1; 29.4 FEET TO (UPPER) TURNING BASIN NO. 2; 28.7 IN TURNING BASIN, PROJECT DEPTHS 30 FEET IN SAN BRUNO SHOAL CHANNEL 30 FEET TO THE HEAD OF THE TURNING BASIN IN REDWOOD CREEK; 5 FEET TO STEINBERGER SLOUGH, AND 4 FEET IN STEINBERGER SLOUGH.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977-----	410,293	1982-----	553,361
1978-----	474,131	1983-----	663,701
1979-----	775,379	1984-----	1,350,416
1980-----	951,242	1985-----	900,918
1981-----	827,459	1986-----	520,577

## FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		TONS	
		IMPORTS	EXPORTS	COASTWISE			
				SHIPMENTS	RECEIPTS		
1042 SAND, GRAVEL, CRUSHED ROCK-----	105,000	-----	-----	-----	-----	105,000	
1491 SALT-----	264,909	-----	177,719	94,190	-----	-----	
2081 ALCOHOLIC BEVERAGES-----	14	14	-----	-----	0	-----	
2089 BASIC CHEMICALS AND PROD, NEC-----	9	-----	-----	-----	0	-----	
2091 MISCELLANEOUS CHEMICAL PROD-----	30,748	30,748	-----	-----	-----	-----	
2912 JET FUEL-----	2,197	-----	-----	-----	2,197	-----	
2991 PETROLEUM AND COAL PROD, NEC-----	9,040	-----	-----	9,044	-----	9,044	
3261 BUILDING CEMENT-----	66,388	56,188	-----	-----	10,200	-----	
4011 IRON AND STEEL SCRAP-----	42,268	-----	42,268	-----	-----	-----	
TOTAL TON-MILES:	930,754	-----	-----	-----	-----	-----	

# Waterborne Commerce of the United States, 1986

OAKLAND HARBOR, CALIF.

SECTION INCLUDED: OUTER AND INNER HARBOR FROM DEEP WATER IN SAN FRANCISCO BAY TO SAN LEANDRO BAY, A DISTANCE OF 4.5 MILES, CONTROLLING DEPTH 35.3 FEET IN THE ENTRANCE CHANNEL OF THE OUTER HARBOR TO BART TUBES 34.5 TO ALBERS HILL; 34.5 TO SHED 5; 36.5 FEET IN THE ENTRANCE CHANNEL TO THE INNER HARBOR; 35.0 FEET IN INNER HARBOR TO FOOT OF PARK STREET; 35.5 FEET TO POSEY TURE; 34.8 FEET AT POSEY TUBE; 33.4 FEET TO KURTMAN BASIN; 24.0 FEET TO PARK STREET BRIDGE; 15.3 FEET IN TIDAL CANAL TO FRUITVALE AVENUE BRIDGE; 14.3 FEET IN TIDAL CANAL TO SAN LEANDRO BAY; 7 FEET IN NORTH CHANNEL OF BROOKLYN BASIN. PROJECT DEPTH: 35 FEET IN THE ENTRANCE CHANNEL TO THE OUTER HARBOR; 35 FEET IN THE OUTER HARBOR; 35 FEET IN THE ENTRANCE CHANNEL TO THE INNER HARBOR; 35 FEET IN THE INNER HARBOR TO THE PARK STREET BRIDGE; 25 FEET IN THE TIDAL CANAL TO SAN LEANDRO BAY; 35 FEET FOR A DISTANCE OF 1,300 FEET THENCE 25 FEET IN NORTH CHANNEL OF BROOKLYN BASIN (\*MANTAINED 18 FEET).

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	ADDITIONAL TRAFFIC			YEAR	TONS	ADDITIONAL TRAFFIC		
		CAR FERRY-RAILROAD CARS EMPTY	LOADED	TOTAL			CAR FERRY-RAILROAD CARS EMPTY	LOADED	TOTAL
1977-----	6,525,938	4,820	5,545	10,365	1982-----	6,985,134			
1978-----	6,937,246	5,051	5,732	10,783	1983-----	7,130,707			
1979-----	6,540,202				1984-----	8,812,259			
1980-----	7,313,533				1985-----	7,953,195			
1986-----	7,348,053				1986-----	8,248,319			

FREIGHT TRAFFIC, 1986

(SHORT TONS)

ITEM, CITY	TOTAL	FOREIGN		DOMESTIC		INTERNAL
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	
8,248,319	2,885,597	2,776,249	318,316	804,279	849,227	615,651
140,831	140,831					
193	27	156				
2,661		2,661				
11	11					
77,551	9,017	10,638	20	44,876		
653		653				
73		73				
652		652				
6,466	426	5,040				
1,845	21	1,824				
9,085	2,325	6,760				
152,817	209	121,581	27,755	3,352		
232	56					176
55,914	51,702	1,025	828	1,359		
4,861	4,795	66				
124,682	4,602	78,799	905	40,316		
930		73	435	422		
12,644	4,486	7,991		167		
1,862	1,561	301				
2,659	2,626	33				
3,853	1,440	764	1,383	266		
16,298	7,680	8,618				
6,869	1,784	4,046	69	568		
499	122	377				
20		20				
7,150	6,694	560				
6,099	337	4,841		921		
1,555	16	1,539				
66		66				
322		322				
558,504	300	9,215				
32,407	3,170	29,215		22	547,589	1,400
169	101	68				
1,808	1,808					
3,019	14	8				3,597
55,511		55,511				
1,110		762				348
48,683	2,845	45,806				32
1,909	1,771	116				22
269,419	107,482	134,725	1,358	45,754		
8,653	6,395	2,438		20		
5,575		5,575				
79,079	92	78,661	126			
21,173	10,530	489	7	10,147		
13,885	314	13,571				
16,806	13,812	2,994				
131,795	35,864	50,034	1,822	44,075		
450,882	156,988	129,996	161,658	2,260		
7,320		918				6,406
241,914	3,720	218,901				19,293
21,008	14,506	5,805				614
4,875	60	103	3,509	866		
73,691		66	70,151	3,470		
197,699	143,215	23,591	162	30,731		
52,216	12,749	32,884	8	6,575		
126	124	2				
51,029			130	51,699		
16,500	16,500					
211,101	99,886	152,949	1,863	6,423		
13,435	181	13,191	6	57		
29,971	24,723	4,133				1,115
11,527		11,527				
53,010	52,682	325				
1,510		1,510				
5,123	1,504	530	61	3,018		
1,230		1,230				
1,075	137	93				
62,035	7,849	49,208	5	473		

OAKLAND HARBOR, CALIF.--CONTINUED

FREIGHT TRAFFIC, 1946--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC			
				COASTWISE		INTERNAL	
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS
2431 VENEER, PLYWOOD, WORKED WOOD-----	20,965	17,649	3,071	-----	245	-----	-----
2491 WOOD MANUFACTURES, NEC-----	59,746	23,610	34,078	-----	1,258	-----	-----
2511 FURNITURE AND FIXTURES-----	66,467	58,846	1,331	15,501	12,787	-----	-----
2611 PULP-----	31,276	74	31,202	-----	-----	-----	-----
2621 STANDARD NEWSPRINT PAPER-----	69,655	69,504	151	-----	-----	-----	-----
2631 PAPER AND PAPERBOARD-----	68,943	24,414	36,030	-----	8,499	-----	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	24,803	5,695	3,234	28	15,846	-----	-----
2711 PRINTED MATTER-----	16,021	9,343	2,574	-----	4,104	-----	-----
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	1,241	1,028	213	-----	-----	-----	-----
2812 DYES, PIGMENT, TANNING MATS-----	225	-----	225	-----	-----	-----	-----
2813 ALCOHOLS-----	3,279	390	2,889	-----	-----	-----	-----
2816 RADIACTIVE MATERIALS, RASTES-----	279	-----	195	84	-----	-----	-----
2817 BENZENE AND TOLUENE-----	12	-----	12	-----	-----	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	172,488	48,524	113,783	1,488	8,693	-----	-----
2821 PLASTIC MATERIALS-----	128,647	19,056	107,766	-----	1,625	-----	-----
2822 SYNTHETIC RUBBER-----	16,773	-----	16,773	-----	-----	-----	-----
2823 SYNTHETIC (MAN-MADE) FIBERS-----	3,622	749	2,973	-----	438	-----	-----
2831 DRUGS-----	6,180	1,966	3,776	-----	-----	-----	-----
2841 SOAP-----	22,715	2,171	6,319	68	18,157	-----	-----
2851 PAINTS-----	23,562	12,276	5,397	68	5,821	-----	-----
2861 GUM AND WOOD CHEMICALS-----	1,333	204	1,129	-----	-----	-----	-----
2871 NITROGENOUS CHEM FERTILIZERS-----	75,746	66,729	650	-----	8,367	-----	-----
2873 PHOSPHATIC CHEM FERTILIZERS-----	16	-----	16	-----	-----	-----	-----
2876 INSECTICIDES, DISINFECTANTS-----	11,353	1,060	8,499	1	1,793	-----	-----
2879 FERTILIZER AND MATERIALS, NEC-----	2,121	374	628	-----	1,119	-----	-----
2891 MISCELLANEOUS CHEMICAL PROD-----	42,634	19,726	21,038	46	1,220	-----	-----
2911 GASOLINE-----	35,311	25	586	-----	-----	31,868	2,832
2912 JET FUEL-----	9,150	-----	-----	-----	-----	9,150	-----
2913 KEROSENE-----	130	-----	150	-----	-----	-----	-----
2914 DISTILLATE FUEL OIL-----	37,627	-----	-----	-----	37,627	-----	-----
2915 RESIDUAL FUEL OIL-----	249,688	-----	-----	-----	249,688	-----	-----
2916 LUBRICATING OILS AND GREASES-----	26,757	2,601	8,820	3,570	1,834	9,932	-----
2917 NAPHTHA, PETROLEUM SOLVENTS-----	236	-----	236	-----	-----	-----	-----
2918 ASPHALT, TAR, AND PITCHES-----	4,908	-----	1,732	-----	3,176	-----	-----
2920 COKE, PETROLEUM COKE-----	7,520	5,928	1,592	-----	-----	-----	-----
2921 LIQUEFIED GASES-----	657	1	656	-----	-----	-----	-----
2951 ASPHALT BUILDING MATERIALS-----	1,536	-----	931	-----	665	-----	-----
2991 PETROLEUM AND COAL PROD, NEC-----	15,403	214	5,342	230	9,617	-----	-----
3011 RUBBER AND MISC PLASTIC PROD-----	75,709	66,496	6,844	66	2,303	-----	-----
3111 LEATHER AND LEATHER PRODUCTS-----	32,922	29,621	3,301	-----	-----	-----	-----
3211 GLASS AND GLASS PRODUCTS-----	30,438	16,135	13,266	21	1,016	-----	-----
3241 BUILDING CEMENT-----	1,297	54	644	-----	549	-----	-----
3251 STRUCTURAL CLAY PRODUCTS-----	19,431	14,697	3,529	24	1,181	-----	-----
3271 LIME-----	12	-----	12	-----	-----	300	-----
3281 CUT STONE AND STONE PRODUCTS-----	14,027	13,651	76	-----	-----	300	-----
3291 MISC NONMETALLIC MINERAL PROD-----	54,026	22,406	18,137	21	13,462	-----	-----
3312 SLAG-----	455	-----	-----	-----	455	-----	-----
3314 IRON AND STEEL PRIMARY FORMS-----	430	304	126	-----	-----	-----	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	576,340	575,824	366	-----	150	-----	-----
3316 IRON AND STEEL PLATES, SHEETS-----	22,979	3,300	16,013	-----	3,066	-----	-----
3317 IRON AND STEEL PIPE AND TUBE-----	64,300	78,814	1,832	6	3,048	-----	-----
3318 FERROALLOYS-----	5,002	4,645	357	-----	-----	-----	-----
3319 IRON AND STEEL PRODUCTS, NEC-----	6,224	5,238	986	-----	-----	-----	-----
3321 NONFERROUS METALS, NEC-----	11,197	1,604	4,587	-----	4,956	-----	-----
3322 COPPER ALLOYS, UNWORKED-----	11,030	3,418	8,212	-----	-----	-----	-----
3323 LEAD AND ZINC, UNWORKED-----	13,573	13,216	457	-----	15	-----	-----
3324 ALUMINUM AND ALLOYS, UNWORKED-----	18,024	16,811	1,198	-----	-----	-----	-----
3411 FABRICATED METAL PRODUCTS-----	173,057	126,356	11,239	311	35,151	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	307,709	252,361	47,300	657	5,531	-----	1,900
3611 ELECTRICAL MACH AND EQUIP-----	165,163	135,669	26,673	112	2,709	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	200,914	202,646	16,696	8,811	52,761	-----	-----
3721 AIRCRAFT AND PARTS-----	620	49	516	-----	55	-----	-----
3731 SHIPS AND BOATS-----	3,198	2,297	449	178	274	-----	-----
3791 MISC TRANSPORTATION EQUIPMENT-----	2,363	712	1,597	7	47	-----	-----
3811 INSTR, TIME, PHOTO, OPT GOODS-----	25,885	18,626	5,259	-----	-----	-----	-----
3911 MISC MANUFACTURED PRODUCTS-----	95,581	79,845	4,131	2,406	9,197	-----	-----
4011 IRON AND STEEL SCRAP-----	201,957	23	260,397	1,537	-----	-----	-----
4012 NONFERROUS METAL SCRAP-----	108,513	27,702	80,811	-----	-----	-----	-----
4022 TEXTILE WASTE, SCRAP, SHEEP-----	4,568	1	4,567	-----	-----	-----	-----
4024 PAPER WASTE AND SCRAP-----	293,672	-----	293,672	-----	-----	-----	-----
4029 WASTE AND SCRAP, NEC-----	509,585	-----	-----	66	-----	-----	609,519
4111 WATER-----	1,690	-----	-----	-----	1,690	-----	-----
4112 COMMODITIES, NEC-----	234,464	12,605	22,177	8,026	191,056	-----	-----
4119 EMPTY CONTAINERS-----	4,795	-----	-----	4,400	395	-----	-----
9999 DEPARTMENT OF DEFENSE AND SCI-----	2,368	-----	2,368	-----	-----	-----	-----

# Waterborne Commerce of the United States, 1986

## RICHMOND HARBOR, CALIF.

SECTION INCLUDES: INNER HARBOR, FROM SOUTHERN END OF RICHMOND LONG WHARF MANEUVERING AREA TO THE HEAD OF SANTA FE CHANNEL, A DISTANCE OF ABOUT 5 MILES; OUTER HARBOR, FROM SOUTHERN END OF MANEUVERING AREA AT RICHMOND LONG WHARF TO POINT SAN PABLO AND THE NORTH SIDE OF POINT SAN PABLO; INCLUDES A CONNECTING CHANNEL (SOUTHAMPTON CHANNEL) TO THE RICHMOND LONG WHARF MANEUVERING AREA AND APPROACH AREAS AT POINT SAN PABLO AND POINT ORIENT, CONTROLLING DEPTH: 41.9 FEET IN SOUTHAMPTON CHANNEL (CONNECTING CHANNEL FROM SAN FRANCISCO BAY TO RICHMOND LONG WHARF MANEUVERING AREA); 41.9 FEET IN MANEUVERING AREA TO RICHMOND LONG WHARF; 32.0 FEET FROM RICHMOND LONG WHARF MANEUVERING AREA TO TURNING BASIN POINT POTRERO; 33.0 FEET IN PT. RICHMOND TURNING BASIN; 33.0 FEET TO POINT POTRERO; 33.0 FEET IN TURNING BASIN AT POINT POTRERO; PT. POTRERO (SOUTHERLY APEX ONLY) 33.2 FEET; 34.4 FEET TO LAURENCE CANAL THEN 30.7 FEET IN SANTA FE CHANNEL TO UPPER TURNING BASIN; 31.2 FEET IN UPPER TURNING BASIN; 27 FEET IN APPROACH TO POINT ORIENT; 26 FEET IN APPROACH TO POINT SAN PABLO; 30.6 FEET AT MOLATE POINT; AND 33.4 FEET IN WEST RICHMOND CHANNEL. PROJECT DEPTHS: 45 FEET IN CONNECTING CHANNEL (SOUTHAMPTON CHANNEL) FROM SAN FRANCISCO BAY TO RICHMOND LONG WHARF MANEUVERING AREA; 45 FEET IN MANEUVERING AREA TO RICHMOND LONG WHARF; 35 FEET TO TURNING BASIN AT PT. RICHMOND; 35 FEET TO POINT POTRERO; 35 FEET TO SANTA FE CHANNEL; 35 FEET IN SANTA FE CHANNEL FOR APPROXIMATELY 2,000 FEET THEN 30 FEET IN THE REMAINDER OF SANTA FE CHANNEL AND TURNING BASIN; 20 FEET IN CHANNEL EAST OF POINT SAN PABLO CHANNELS; 32 FEET IN APPROACH TO POINT ORIENT; 32 FEET IN APPROACH TO POINT SAN PABLO.

### COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	ADDITIONAL TRAFFIC CAR FERRY-RAILROAD CARS			YEAR	TONS	ADDITIONAL TRAFFIC CAR FERRY-RAILROAD CARS		
		EMPTY	LOADED	TOTAL			EMPTY	LOADED	TOTAL
1977-----	23,823,508	3,368	3,699	7,067	1982-----	15,394,697	1,403	1,490	2,893
1978-----	16,985,001	3,316	3,667	6,983	1983-----	15,803,285	830	767	1,597
1979-----	15,475,302	3,646	4,246	7,894	1984-----	16,341,341	203	177	380
1980-----	18,559,965	23,134	24,327	47,461	1985-----	17,177,609	-----	-----	-----
1981-----	18,019,605	2,150	2,304	4,464	1986-----	18,832,511	-----	-----	-----

### FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		INTERNAL	LOCAL		
		IMPORTS	EXPORTS	COASTWISE					
				RECEIPTS	SHIPMENTS				
TOTAL-----	18,832,511	2,079,741	3,220,081	7,022,870	2,385,363	1,786,987	2,301,044		
0103 CORN-----	4,680	-----	-----	4,680	-----	-----	-----		
0105 RICE-----	3,719	-----	3,719	-----	-----	-----	-----		
0119 OILSEEDS, ETC-----	441	441	441	-----	-----	-----	-----		
1051 ALUMINUM ORES, CONCENTRATES-----	42,257	42,257	-----	-----	-----	-----	-----		
1091 NONFERROUS ORES, CONCENTRATES, NEC-----	4,797	4,797	-----	-----	-----	-----	-----		
1121 COAL AND LIGNITE-----	42,282	42,282	-----	-----	-----	-----	-----		
1311 CRUDE PETROLEUM-----	7,665,872	736,597	-----	5,498,149	20,879	1,612,247	-----		
1491 SALT-----	35,922	35,922	-----	-----	-----	-----	-----		
1494 GYPSUM, CRUDE AND PLASTER-----	187,793	187,793	-----	-----	-----	-----	-----		
1911 ORDNANCE AND ACCESSORIES-----	47	47	47	-----	-----	-----	-----		
2011 MEAT, FRESH, CHILLED, FROZEN-----	71	71	71	-----	-----	-----	-----		
2014 TALLOW, ANIMAL FATS AND OILS-----	31,562	-----	31,562	-----	-----	-----	-----		
2015 ANIMAL BY-PRODUCTS, ETC-----	80	80	80	-----	-----	-----	-----		
2031 FISH AND SHELLFISH, PREPARED-----	1	1	1	-----	-----	-----	-----		
2034 VEGETABLES AND PREP, NEC-----	9	9	9	-----	-----	-----	-----		
2039 PREP FRUIT AND VEG JUICE, NEL-----	42	42	42	-----	-----	-----	-----		
2062 MOLASSES-----	10,540	10,540	-----	-----	-----	-----	-----		
2081 ALCOHOLIC BEVERAGE-----	339	339	339	-----	-----	-----	-----		
2091 VEGETABLE OILS, MARG, SHORT-----	236,417	215,369	23,048	-----	-----	-----	-----		
2099 MISCELLANEOUS FOOD PRODUCTS-----	37	37	37	-----	-----	-----	-----		
2111 TOBACCO MANUFACTURES-----	1	1	1	-----	-----	-----	-----		
2211 BASIC TEXTILE PRODUCTS-----	28	28	28	-----	-----	-----	-----		
2311 APPAREL-----	6	6	6	-----	-----	-----	-----		
2411 LOGS-----	58	58	58	-----	-----	-----	-----		
2421 LUMBER-----	6,211	37	6,174	-----	-----	-----	-----		
2431 VENEER, PLYWOOD, WJKEED WOOD-----	201	201	201	-----	-----	-----	-----		
2491 WOOD MANUFACTURES, NEC-----	81	69	12	-----	-----	-----	-----		
2511 FURNITURE AND FIXTURES-----	161	161	161	-----	-----	-----	-----		
2621 STANDARD NEWSPRINT PAPER-----	6,013	6,013	-----	-----	-----	-----	-----		
2631 PAPER AND PAPERBOARD-----	376	376	376	-----	-----	-----	-----		
2691 PULP AND PAPER PRODUCTS, NEC-----	14	14	14	-----	-----	-----	-----		
2810 SOJUIN, HYDROCARB-----	73,036	-----	66,101	6,935	-----	-----	-----		
2811 CRUDE TAX, OIL, GAS PRODUCTS-----	6,008	4,533	-----	1,475	-----	-----	-----		
2813 ALCOHOLS-----	17,054	6,524	10,545	-----	-----	-----	-----		
2817 BENZENE AND TOLUENE-----	41,080	38,070	-----	-----	-----	-----	3,012		
2819 BASIC CHEMICALS AND PROD, NEC-----	125,279	59,981	43,050	13,129	9,114	-----	-----		
2821 PLASTIC MATERIALS-----	7	6	1	-----	-----	-----	-----		
2871 NITROGENOUS CHEM FERTILIZERS-----	41	40	1	-----	-----	-----	-----		
2873 PHOSPHATIC CHEM FERTILIZERS-----	10,494	10,494	-----	600	-----	-----	-----		
2891 MISCELLANEOUS CHEMICAL PROD-----	600	-----	61,202	3,653	19,112	-----	-----		
2911 GASOLINE-----	83,967	-----	81,272	128,451	390,508	143,494	22,283	50,172	
2912 JET FUEL-----	1,027,180	92,272	-----	81,488	213,258	28,753	6,300	-----	
2913 KEROSENE-----	44,008	114,319	-----	-----	-----	-----	-----	-----	
2914 DISTILLATE FUEL OIL-----	159	159	159	-----	-----	-----	-----	-----	
2915 RESIDUAL FUEL OIL-----	1,174,876	-----	496,636	232,326	409,549	32,008	4,359	-----	
2916 LUBRICATING OILS AND GREASES-----	3,918,214	-----	2,037,769	638,152	804,951	65,052	386,019	26,271	
2917 NAPHTHA, PETROLEUM, SOLVENTS-----	282,907	10,007	1,299	8,983	221,008	26,686	9,932	5,072	
2918 ASPHALT, TAR, AND PITCHES-----	107,526	63,666	-----	23,661	20,199	-----	-----	-----	
2920 COKE, PETROLEUM COKES-----	98,787	69,118	-----	-----	29,669	-----	-----	-----	
2991 PETROLEUM AND COAL PROD, ETC-----	73,684	5,842	67,842	-----	-----	-----	-----	-----	
3011 RUBBER AND MISC PLASTIC PROD-----	333,976	22	22	-----	52,071	280,233	-----	1,672	
3111 LEATHER AND LEATHER PRODUCTS-----	5	5	5	-----	-----	-----	-----	-----	
3211 GLASS AND GLASS PRODUCTS-----	84	84	84	-----	-----	-----	-----	-----	
3281 BUILDING CEMENT-----	199,252	199,252	-----	-----	-----	-----	-----	-----	
3282 CUT STONE AND STONE EXTRUDCS-----	8	8	8	-----	-----	-----	-----	-----	
3311 PIG IRON-----	4,634	-----	4,634	-----	-----	-----	-----	-----	
3315 IRON, STEEL SHAPES, ETC SHEET-----	33,560	33,560	-----	-----	-----	-----	-----	-----	
3317 IRON AND STEEL PIPE AND TUBE-----	223	223	223	-----	-----	-----	-----	-----	
3318 FERROALLOYS-----	392	-----	392	-----	-----	-----	-----	-----	
3322 COPPER ALLOYS, UNWORKED-----	19	-----	19	-----	-----	-----	-----	-----	
3323 LEAD AND ZINC, UNWORKED-----	596	596	596	-----	-----	-----	-----	-----	
3324 ALUMINUM AND ALLOYS, UNWORKED-----	97	-----	97	-----	-----	-----	-----	-----	

## SAN FRANCISCO, CA, DISTRICT

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RICHMOND HARBOR, CALIF.--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC				LOCAL	
		COASTWISE		INTERNAL		RECEIPTS	SHIPMENTS		
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS				
3611 FABRICATED METAL PRODUCTS-----	722	721	1	-----	-----	-----	-----	-----	
3511 MACHINERY, EXCEPT ELECTRICAL-----	2,389	2,389	-----	-----	-----	-----	-----	-----	
3611 ELECTRICAL MACH AND EQUIP-----	32	32	-----	-----	-----	-----	-----	-----	
3711 MOTOR VEHICLES, PARTS, EQUIP-----	87,270	86,672	598	-----	-----	-----	-----	-----	
3721 AIRCRAFT AND PARTS-----	63	63	63	-----	-----	-----	-----	-----	
3731 SHIPS AND BOATS-----	1	1	-----	-----	-----	-----	-----	-----	
3911 MISC MANUFACTURED PRODUCTS-----	110	110	-----	-----	-----	-----	-----	-----	
4011 IRON AND STEEL SCRAP-----	310,926	-----	518,926	-----	-----	-----	-----	-----	
4022 TEXTILE PASTE, SCRAP, SWEEP-----	28	28	-----	-----	-----	-----	-----	-----	
4029 WASTE AND SCRAP, NEC-----	1,886,262	-----	-----	-----	-----	-----	1,864,262	-----	
4112 COMMODITIES, NEC-----	101	42	59	-----	-----	-----	-----	-----	
9999 DEPARTMENT OF DEFENSE AND SCI-----	271	-----	271	-----	-----	-----	-----	-----	

## SAN PABLO BAY AND WARE ISLAND STRAIT, CALIF.

SECTION INCLUDED: ALL OF SAN PABLO BAY AND WARE ISLAND STRAIT. CONTROLLING DEPTHS: PINOLE SHOAL CHANNEL 37.1 FEET FROM S. P. BUDY AT BEGINNING OF CHANNEL TO BUDY 9; 36.0 FEET TO BUDY 11; 35.0 FEET TO END OF CHANNEL; WARE ISLAND STRAIT (THE MAINTAINED WESTERLY 5% OF PROJECT WIDTH) 35.5 FEET TO THE NAVY AMMUNITION PIERS; 35.9 FEET TO FINGER PIER NO. 21; 36.4 FEET TO "A" STREET (END OF MAINTAINED SECTION); 20.5 FEET TO THE END OF 26-FOOT PROJECT AT CAUSEWAY. PROJECT DEPTH: 35 FEET IN PINOLE SHOAL CHANNEL AND 30 FEET IN WARE ISLAND STRAIT, EXCEPT AT UPSTREAM END OF TURNING BASIN, 26 FEET.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977-----	32,656,140	1982-----	31,177,922
1978-----	29,097,918	1983-----	29,103,850
1979-----	28,119,814	1984-----	28,783,513
1980-----	30,961,039	1985-----	28,286,726
1981-----	31,582,250	1986-----	29,745,112

\* PASSENGERS=8,176.

## FREIGHT TRAFFIC, 1986

## OCEANGOING

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC				THROUGH UPBOUND DOWNBOUND	
		IMPORTS	EXPORTS	COASTWISE		RECEIPTS	SHIPMENTS		
				UPBOUND	DOWNBOUND				
TOTAL-----	24,378,533	182,091	447,401	2,465,494	4,429,371	2,483,493	2,079,006	8,726,900	
0102 BARLEY AND RYE-----	17,224	-----	-----	17,224	-----	-----	-----	-----	
0105 RICE-----	354,357	-----	-----	-----	303,765	-----	-----	50,592	
0119 OILSEEDS, NEC-----	27,685	-----	-----	-----	27,685	-----	-----	-----	
0129 FIELD CROPS, NEC-----	18	-----	-----	-----	18	-----	-----	-----	
0131 FRESH FRUITS-----	56	-----	-----	-----	56	-----	-----	-----	
0133 COFFEE-----	38	-----	-----	38	-----	-----	-----	-----	
0161 ANIMALS AND PRODUCTS, NEC-----	23	-----	23	-----	-----	-----	-----	-----	
1051 ALUMINUM ORES, CONCENTRATES-----	8,075	-----	-----	8,075	-----	-----	-----	-----	
1311 CRUDE PETROLEUM-----	10,308,845	26,370	-----	186,529	-----	2,282,066	-----	6,508,026	
1451 CLAY-----	3,306	-----	-----	-----	3,306	-----	-----	-----	
1492 SULPHUR, DRY-----	276,332	-----	-----	-----	276,332	-----	-----	-----	
1499 GYPSUM, CRUDE AND PLASTERS-----	543,318	-----	-----	543,318	-----	-----	-----	-----	
1699 NONMETALLIC MINERALS, NEC-----	548	-----	-----	129	419	-----	-----	-----	
2012 MEAT AND PRODUCTS, NEC-----	57	-----	-----	57	-----	-----	-----	-----	
2013 TALLOW, ANIMAL FATS AND OILS-----	1,157	-----	-----	-----	1,157	-----	-----	-----	
2022 DRIED MILK AND CREAM-----	2,584	-----	-----	-----	2,584	-----	-----	-----	
2031 FISH AND SHELLFISH, PREPARED-----	4	-----	4	-----	-----	-----	-----	-----	
2032 PREP FRUIT AND VEG JUICE, NEC-----	374	-----	-----	374	-----	-----	-----	-----	
2042 ANIMAL FEEDS-----	27,618	-----	-----	-----	27,618	-----	-----	-----	
2049 GRAIN MILL PRODUCTS, NEC-----	13	-----	-----	13	-----	-----	-----	-----	
2061 SUGAR-----	434,582	-----	-----	35,384	-----	-----	-----	399,198	
2081 ALCOHOLIC BEVERAGES-----	276	-----	-----	265	11	-----	-----	-----	
2099 MISCELLANEOUS FOOD PRODUCTS-----	13,881	-----	-----	14	15,827	-----	-----	-----	
2211 BASIC TEXTILE PRODUCTS-----	26	-----	18	12	-----	-----	-----	-----	
2311 APPAREL-----	83	23	-----	60	-----	-----	-----	-----	
2411 LOGS-----	75,336	-----	-----	75,336	-----	-----	-----	-----	
2616 WOOD CHIPS, STAVES, HOLDINGS-----	146,343	-----	-----	146,343	-----	-----	-----	-----	
2621 LUMBER-----	43,143	-----	-----	1,155	34	20,427	-----	21,527	
2691 WOOD MANUFACTURES, NEC-----	70	-----	-----	6	66	-----	-----	-----	
2911 FURNITURE AND FIXTURES-----	149	-----	-----	149	-----	-----	-----	-----	
2631 PAPER AND PAPERBOARD-----	68	-----	-----	66	4	-----	-----	-----	
2691 PULP AND PAPER PRODUCTS, NEC-----	4	-----	4	-----	-----	-----	-----	-----	
2810 SODIUM HYDROXIDE-----	35,335	-----	-----	-----	-----	-----	33,717	1,618	
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	3,511	-----	-----	3,511	-----	-----	-----	-----	
2813 ALCOHOLS-----	5,265	-----	-----	5,265	-----	-----	-----	-----	
2817 BENZENE AND TOLUENE-----	13,929	6,449	-----	9,480	-----	-----	-----	-----	
2819 BASIC CHEMICALS AND PROD, NEC-----	670,602	22,162	1,970	365,313	77,050	-----	-----	189,121	
2821 PLASTIC MATERIALS-----	340	-----	340	-----	-----	-----	-----	14,186	
2851 PAINTS-----	19	-----	-----	11	8	-----	-----	-----	
2861 GUM AND WOOD CHEMICALS-----	8,277	-----	-----	-----	-----	-----	8,277	-----	
2871 NITROGENOUS CHEM FERTILIZERS-----	307,693	-----	-----	156,861	-----	-----	-----	150,832	
2872 POTASSIC CHEM FERTILIZERS-----	4,390	-----	-----	4,390	-----	-----	-----	-----	
2879 FERTILIZER AND MATERIALS, NEC-----	7,458	-----	-----	-----	-----	-----	-----	7,458	
2891 MISCELLANEOUS CHEMICAL PROD-----	12,818	0,613	-----	602	-----	-----	-----	3,923	

## Waterborne Commerce of the United States, 1986

SAN PABLO BAY AND MARE ISLAND STRAIT, CALIF.--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

OCEANGOING--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN				DOMESTIC COASTWISE			
		IMPORTS	EXPORTS	THROUGH		RECEIPTS	SHIPMENTS	THROUGH	
				UPBOUND	DOWNBOUND			UPBOUND	DOWNBOUND
2911 GASOLINE-----	2,571,128	48,745	100,935	689,557	204,489	66,175	624,190	145,811	691,226
2912 JET FUEL-----	318,905	-----	367	-----	7,267	1,094	135,094	22,459	152,624
2914 DISTILLATE FUEL OIL-----	2,266,961	-----	123,337	-----	489,078	106,163	943,780	389,854	214,369
2915 RESIDUAL FUEL OIL-----	3,731,727	-----	220,429	17,002	1,493,049	7,568	256,506	802,099	735,074
2916 LUBRICATING OILS AND GREASES-----	421,228	-----	-----	-----	141,359	-----	108,530	2,389	168,950
2917 NAPHTHA, PETROLEUM SOLVENTS-----	132,608	71,642	-----	30,253	-----	-----	-----	24,348	6,365
2918 ASPHALT, TAR, AND PITCHES-----	29,235	-----	-----	16,775	12,460	-----	-----	-----	-----
2920 COKE, PETROLEUM CORE-----	835,458	-----	-----	-----	835,458	-----	7,000	25,589	217,561
2991 PETROLEUM AND COAL PROD, NEC-----	250,150	-----	-----	-----	-----	-----	-----	-----	-----
3011 RUBBER AND MISC PLASTIC PROD-----	92	7	-----	78	7	-----	-----	-----	-----
3111 LEATHER AND LEATHER PRODUCTS-----	60	12	-----	37	11	-----	-----	-----	-----
3211 GLASS AND GLASS PRODUCTS-----	57	-----	-----	45	12	-----	-----	-----	-----
3241 BUILDING CEMENT-----	112,785	-----	-----	112,785	-----	-----	-----	-----	-----
3251 STRUCTURAL CLAY PRODUCTS-----	20	-----	-----	20	-----	-----	-----	-----	-----
3261 CUT STONE AND STONE PRODUCTS-----	10	-----	-----	10	-----	-----	-----	-----	-----
3291 MISC NONMETALLIC MINERAL PROD-----	901	-----	-----	1	-----	-----	-----	-----	900
3315 IRON, STEEL SHAPES, EXC SHEET-----	8,558	-----	-----	8,558	-----	-----	-----	-----	-----
3316 IRON AND STEEL PLATES, SHEETS-----	20	-----	-----	20	-----	-----	-----	-----	-----
3324 ALUMINUM AND ALLOYS, UNWORKED-----	21	-----	-----	21	-----	-----	-----	-----	-----
3411 FABRICATED METAL PRODUCTS-----	198	10	-----	188	-----	-----	-----	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	2,243	1	-----	1,775	337	-----	-----	130	-----
3611 ELECTRICAL MACH AND EQUIP-----	383	22	-----	352	9	-----	-----	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	233,920	2	-----	232,759	1,159	-----	-----	-----	-----
3791 MISC TRANSPORTATION EQUIPMENT-----	10	-----	-----	10	-----	-----	-----	-----	-----
3811 INSTR, TIME, PHOTO, OPT GOODS-----	37	-----	-----	36	1	-----	-----	-----	-----
3911 MISC MANUFACTURED PRODUCTS-----	57	19	-----	36	2	-----	-----	-----	-----
4011 IRON AND STEEL SCRAP-----	54,575	-----	-----	-----	84,575	-----	-----	-----	-----
4012 NONFERROUS METAL SCRAP-----	15,959	-----	-----	15,869	90	-----	-----	-----	-----
4024 PAPER WASTE AND SCRAP-----	90	-----	-----	90	-----	-----	-----	-----	-----
4112 COMMODITIES, NEC-----	3,939	-----	-----	33	-----	3,900	-----	-----	-----
9999 DEPARTMENT OF DEFENSE AND SCI-----	1,752	-----	-----	1,782	-----	-----	-----	-----	-----
TON-MILES, OCEANGOING.	278,578,059.	-----	-----	-----	-----	-----	-----	-----	-----

## INTERNAL

(SHORT TONS)

COMMODITY	TOTAL	INTERNAL			
		INBOUND	OUTBOUND	DOWNBOUND	THROUGH
		UPBOUND	DOWNBOUND	UPBOUND	DOWNBOUND
TOTAL-----	5,366,579	1,033,480	200,666	11,700	3,178,454
1311 CRUDE PETROLEUM-----	5,396,305	780,413	13,489	-----	2,602,403
1442 SAND, GRAVEL, CRUSHED ROCK-----	329,900	34,000	-----	-----	14,200
1491 SALT-----	39,600	-----	-----	-----	39,600
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	5,157	-----	-----	-----	5,157
2911 GASOLINE-----	33,057	3,264	-----	-----	10,382
2912 JET FUEL-----	122,970	-----	8,063	-----	110,911
2914 DISTILLATE FUEL OIL-----	129,624	-----	51,693	-----	59,186
2915 RESIDUAL FUEL OIL-----	560,916	6,916	95,979	-----	47,505
2916 LUBRICATING OILS AND GREASES-----	26,646	-----	26,646	-----	-----
2917 NAPHTHA, PETROLEUM SOLVENTS-----	13,680	13,680	-----	-----	-----
2918 ASPHALT, TAR, AND PITCHES-----	4,796	-----	4,796	-----	-----
2991 PETROLEUM AND COAL PROD, NEC-----	4,344	-----	-----	-----	4,344
3011 RUBBER AND MISC PLASTIC PROD-----	15	-----	-----	-----	15
3291 MISC NONMETALLIC MINERAL PROD-----	27,556	-----	-----	-----	27,556
3411 FABRICATED METAL PRODUCTS-----	207	207	-----	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	1,900	-----	-----	1,900	-----
4029 WASTE AND SCRAP, NEC-----	230,400	195,000	-----	11,700	300
4116 WATERWAY IMPROVEMENT MAT-----	439,500	-----	-----	439,100	400
TON-MILES, INTERNAL.	55,685,626.	-----	-----	-----	-----
TONS, ALL TRAFFIC.	29,745,112.	-----	-----	-----	-----
TON-MILES, ALL TRAFFIC.	334,263,605.	-----	-----	-----	-----

## CARQUINEZ STRAIT, CALIF.

SECTION INCLUDED: ALL OF CARQUINEZ STRAIT FROM DAVIS POINT ON THE WESTERLY END TO THE BENICIA-MARTINEZ BRIDGE AT SUISUN POINT ON THE EASTERLY END, A DISTANCE OF ABOUT 8 MILES. CONTROLLING DEPTH: 33 FEET. PROJECT DEPTH: 45 FEET.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977-----	24,740,631	1982-----	25,805,889
1978-----	21,825,012	1983-----	23,049,417
1979-----	22,273,172	1984-----	22,860,317
1980-----	25,341,942	1985-----	21,522,175
1981-----	26,341,975	1986-----	23,875,452

\* PASSENGERS--8,176.

## SAN FRANCISCO, CA, DISTRICT

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CARQUINNEZ STRAIT, CALIF.--CONTINUED

FREIGHT TRAFFIC, 1986

OCEANGOING

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN				DOMESTIC COASTWISE			
		IMPORTS	EXPORTS	THROUGH		RECEIPTS	SHIPMENTS	THROUGH	
				UPBOUND	DOWNBOUND			UPBOUND	DOWNBOUND
TOTAL-----	19,185,512	1,408,252	2,748,797	1,057,242	1,680,574	8,056,734	2,169,198	667,510	1,397,105
0102 BARLEY AND RYE-----	17,220	-----	-----	17,224	-----	-----	-----	-----	-----
0105 RICE-----	354,357	-----	-----	-----	303,765	-----	-----	-----	50,592
0119 OILSEEDS, NEC-----	27,885	-----	-----	-----	27,885	-----	-----	-----	-----
0129 FIELD CROPS, NEC-----	14	-----	-----	-----	14	-----	-----	-----	-----
0131 FRESH FRUITS-----	56	-----	-----	-----	56	-----	-----	-----	-----
0133 COFFEE-----	38	38	-----	-----	-----	-----	-----	-----	-----
1051 ALUMINUM DRES, CONCENTRATES-----	8,075	-----	-----	8,075	-----	-----	-----	-----	-----
1311 CRUDE PETROLEUM-----	8,000,409	188,529	-----	-----	-----	6,262,941	834,542	245,085	469,312
1451 CLAY-----	3,306	-----	-----	-----	3,306	-----	-----	-----	-----
1492 SULPHUR, DRY-----	276,332	-----	-----	-----	276,332	-----	-----	-----	-----
1494 GYPSUM, CRUDE AND PLASTERS-----	543,318	-----	-----	543,318	-----	-----	-----	-----	-----
1499 NONMETALLIC MINERALS, NEC-----	548	129	-----	-----	419	-----	-----	-----	-----
2012 MEAT AND PRODUCTS, NEC-----	57	-----	-----	57	-----	-----	-----	-----	-----
2014 TALLOW, ANIMAL FATS AND OILS-----	1,157	-----	1,157	-----	-----	-----	-----	-----	-----
2022 DRIED MILK AND CREAM-----	2,584	-----	-----	-----	2,584	-----	-----	-----	-----
2031 FISH AND SHELLFISH, PREPARED-----	4	4	-----	-----	374	-----	-----	-----	-----
2039 PREP FRUIT AND VEG JUICE, NEC-----	374	-----	-----	-----	374	-----	-----	-----	-----
2042 ANIMAL FEEDS-----	27,614	-----	-----	-----	27,614	-----	-----	-----	-----
2049 GRAIN MILL PRODUCTS, NEC-----	15	-----	-----	13	-----	-----	-----	-----	-----
2061 SUGAR-----	434,582	23,501	-----	11,883	-----	399,198	-----	-----	-----
2081 ALCOHOLIC BEVERAGES-----	276	-----	-----	265	11	-----	-----	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	13,841	14	-----	-----	13,827	-----	-----	-----	-----
2211 BASIC TEXTILE PRODUCTS-----	12	4	-----	8	-----	-----	-----	-----	-----
2311 APPAREL-----	60	55	-----	5	-----	-----	-----	-----	-----
2411 LOGS-----	75,338	-----	-----	75,338	-----	-----	-----	-----	-----
2416 WOOD CHIPS, STAVES, HOLDINGS-----	146,343	-----	-----	146,343	-----	-----	-----	-----	-----
2421 LUMBER-----	22,716	37	-----	1,118	34	21,527	-----	-----	-----
2491 WOOD MANUFACTURES, NEC-----	70	1	-----	3	66	-----	-----	-----	-----
2511 FURNITURE AND FIXTURES-----	149	90	-----	59	-----	-----	-----	-----	-----
2631 PAPER AND PAPERBOARD-----	68	64	-----	4	-----	-----	-----	-----	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	4	-----	-----	4	-----	-----	-----	-----	-----
2810 SODIUM HYDROXIDE-----	35,335	-----	-----	-----	-----	-----	-----	33,717	1,618
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	3,511	3,511	-----	-----	-----	-----	-----	-----	-----
2813 ALCOHOLS-----	5,265	5,265	-----	-----	-----	-----	-----	-----	-----
2817 BENZENE AND TOLUENE-----	9,480	9,480	-----	-----	-----	-----	-----	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	646,470	190,147	16,960	175,166	60,910	-----	-----	189,121	14,186
2851 PAINTS-----	19	11	-----	8	-----	-----	-----	-----	-----
2861 GUM AND WOOD CHEMICALS-----	6,277	-----	-----	-----	-----	-----	-----	8,277	-----
2871 NITROGENOUS CHEM FERTILIZERS-----	307,693	-----	-----	156,861	-----	-----	-----	150,852	-----
2872 POTASSIC CHEM FERTILIZERS-----	4,398	-----	-----	4,398	-----	-----	-----	-----	-----
2879 FERTILIZER AND MATERIALS, NEC-----	7,458	-----	-----	-----	-----	-----	-----	7,458	-----
2891 MISCELLANEOUS CHEMICAL PROD-----	4,205	-----	682	-----	-----	3,523	-----	-----	-----
2911 GASOLINE-----	1,731,083	689,557	177,045	-----	26,644	131,176	94,150	14,635	597,076
2912 JET FUEL-----	162,350	-----	7,267	-----	-----	22,459	151,326	-----	1,298
2914 DISTILLATE FUEL OIL-----	1,093,701	-----	415,936	-----	73,642	363,911	175,964	25,943	38,405
2915 RESIDUAL FUEL OIL-----	3,247,224	17,002	1,579,101	-----	113,908	799,673	620,218	-----	117,282
2916 LUBRICATING OILS AND GREASES-----	312,698	-----	89,012	-----	52,347	2,389	165,984	-----	2,966
2917 NAPHTHA, PETROLEUM SOLVENTS-----	60,966	30,253	-----	-----	-----	24,348	6,365	-----	-----
2918 ASPHALT, TAR, AND PITCHES-----	29,235	16,775	12,460	-----	-----	-----	-----	-----	-----
2920 COKE, PETROLEUM COKE-----	835,458	-----	446,105	-----	389,353	-----	-----	-----	-----
2991 PETROLEUM AND COAL PROD, NEC-----	243,190	-----	-----	-----	25,589	120,649	-----	-----	96,912
3011 RUBBER AND MISC PLASTIC PROD-----	65	53	-----	25	7	-----	-----	-----	-----
3111 LEATHER AND LEATHER PRODUCTS-----	48	24	-----	13	11	-----	-----	-----	-----
3211 GLASS AND GLASS PRODUCTS-----	57	3	-----	42	12	-----	-----	-----	-----
3201 BUILDING CEMENT-----	112,785	-----	-----	112,785	-----	-----	-----	-----	-----
3251 STRUCTURAL CLAY PRODUCTS-----	20	-----	-----	20	-----	-----	-----	-----	-----
3201 CUT STONE AND STONE PRODUCTS-----	10	-----	-----	10	-----	-----	-----	-----	-----
3291 MISC NONMETALLIC MINERAL PROD-----	1	1	-----	-----	-----	-----	-----	-----	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	8,558	-----	-----	8,558	-----	-----	-----	-----	-----
3316 IRON AND STEEL PLATES, SHEETS-----	20	-----	20	-----	-----	-----	-----	-----	-----
3324 ALUMINUM AND ALLOYS, UNWORKED-----	21	-----	-----	21	-----	-----	-----	-----	-----
3411 FABRICATED METAL PRODUCTS-----	188	165	-----	23	-----	-----	-----	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	2,112	415	6	1,360	331	-----	-----	-----	-----
3611 ELECTRICAL MACH AND EQUIP-----	361	304	-----	46	9	-----	-----	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	233,916	232,759	1,159	-----	-----	-----	-----	-----	-----
3791 MISC TRANSPORTATION EQUIPMENT-----	10	-----	-----	-----	10	-----	-----	-----	-----
3811 INSTR, TIME, PHOTO, OPT GOODES-----	37	34	-----	2	1	-----	-----	-----	-----
3911 MISC MANUFACTURED PRODUCTS-----	38	27	1	9	1	-----	-----	-----	-----
4011 IRON AND STEEL SCRAP-----	88,575	-----	-----	-----	88,575	-----	-----	-----	-----
4012 NONFERROUS METAL SCRAP-----	15,959	-----	45	15,869	45	-----	-----	-----	-----
4024 PAPER WASTE AND SCRAP-----	94	-----	-----	-----	94	-----	-----	-----	-----
4112 COMMODITIES, NEC-----	33	-----	-----	-----	33	-----	-----	-----	-----
9999 DEPARTMENT OF DEFENSE AND SCI-----	1,782	-----	1,121	-----	661	-----	-----	-----	-----

TON-MILES, OCEANGOING, 131,626,146.

INTERNAL  
(SHORT TONS)

COMMODITY	TOTAL	INBOUND	OUTBOUND	UPBOUND	DOWNBOUND	THROUGH	
						UPBOUND	DOWNBOUND
TOTAL-----	8,639,940	2,867,274	770,363	99,693	8,084	527,295	437,231
1311 CRUDE PETROLEUM-----	2,617,433	2,582,264	-----	1,541	-----	33,628	-----
1442 SAND, GRAVEL, CRUSHED ROCK-----	318,300	-----	5,600	-----	-----	2,600	310,100
1491 SALT-----	59,600	-----	-----	-----	-----	39,600	-----

## Waterborne Commerce of the United States, 1986

CARQUINEZ STRAIT, CALIF.--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

INTERNAL--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	INBOUND	OUTBOUND	UPROUND	DOWNBOUND	THROUGH	
						UPBOUND	DOWNBOUND
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	10,519	5,362	-----	-----	-----	-----	5,157
2911 GASOLINE-----	42,440	-----	11,660	12,647	-----	10,342	7,787
2912 JET FUEL-----	114,911	-----	114,911	-----	-----	-----	-----
2914 DISTILLATE FUEL OIL-----	147,177	70,438	41,594	17,553	-----	-----	17,592
2915 RESIDUAL FUEL OIL-----	586,167	77,170	376,194	67,952	8,084	1,810	54,957
2917 NAPHTHA, PETROLEUM SOLVENTS-----	13,680	-----	-----	-----	-----	-----	13,680
2918 ASPHALT, TAR, AND PITCHES-----	4,796	4,796	-----	-----	-----	-----	-----
2991 PETROLEUM AND COAL PROD, NEC-----	4,344	4,344	-----	-----	-----	-----	-----
3011 RUBBER AND MISC PLASTIC PROD-----	15	15	-----	-----	-----	15	-----
3291 MISC NONMETALLIC MINERAL PROD-----	27,558	-----	-----	-----	-----	-----	27,558
3511 MACHINERY, EXCEPT ELECTRICAL-----	1,900	-----	-----	-----	-----	1,900	-----
4029 WASTE AND SCRAP, NEC-----	321,600	102,900	218,400	-----	-----	300	-----
4118 WATERWAY IMPROVEMENT MAT-----	439,500	-----	2,000	-----	-----	437,100	400
TON-MILES, INTERNAL, 31,900,334.							
TONS, ALL TRAFFIC, 23,475,452.							
TON-MILES, ALL TRAFFIC, 163,526,478.							

SUISUN BAY CHANNEL, CALIF.

SECTION INCLUDED: SUISUN BAY CHANNEL FROM SUISUN POINT AT WEST END OF BENICIA-MARTINEZ BRIDGE TO EAST REACH OF MIDDLEGROUND ISLAND THENCE TO MOUTH OF NEW YORK SLOUGH. CONTROLLING DEPTHS: 32.0 FEET FROM SUISUN POINT TO AVON WHARF; 31.6 FEET TO PRESTON POINT; 29.6 FEET TO MIDDLE POINT; 29.7 FEET THROUGH EAST REACH MIDDLEGROUND ISLAND TO MOUTH OF NEW YORK SLOUGH. PROJECT DEPTHS: 35 FEET FROM BENICIA-MARTINEZ BRIDGE TO AVON PIER, 30 FEET FOR REMAINDER OF CHANNEL.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977-----	7,920,400	1982-----	7,037,843
1978-----	5,787,360	1983-----	7,144,648
1979-----	6,121,200	1984-----	6,090,172
1980-----	8,092,843	1985-----	6,547,087
1981-----	8,081,497	1986-----	5,905,496

\* PASSENGERS--8,176.

## FREIGHT TRAFFIC, 1986

FOREIGN

(SHORT TONS)

COMMODITY	TOTAL	EXPORTS	THROUGH	
			UPBOUND	DOWNBOUND
TOTAL-----	2,737,816	328,120	1,057,282	1,352,454
0102 BARLEY AND RYE-----	17,224	-----	17,224	-----
0105 RICE-----	303,765	-----	-----	303,765
0119 OILSEEDS, NEC-----	27,885	-----	-----	27,885
0129 FIELD CROPS, NEC-----	14	-----	-----	14
0131 FRESH FRUITS-----	56	-----	-----	56
1051 ALUMINUM ORES, CONCENTRATES-----	8,075	-----	8,075	-----
1451 CLAY-----	3,306	-----	-----	3,306
1492 SULPHUR, DRY-----	276,332	-----	276,332	-----
1494 GYPSUM, CRUDE AND PLASTERS-----	543,318	-----	543,318	-----
1499 NONMETALLIC MINERALS, NEC-----	419	-----	419	-----
2012 HEAT AND PRODUCTS, NEC-----	57	-----	57	-----
2022 DRIED MILK AND CREAM-----	2,584	-----	2,584	-----
2039 PREP FRUIT AND VEG JUICE, NEC-----	374	-----	374	-----
2042 ANIMAL FEEDS-----	27,614	-----	-----	27,614
2049 GRAIN MILL PRODUCTS, NEC-----	13	-----	13	-----
2061 SUGAR-----	11,083	-----	11,083	-----
2081 ALCOHOLIC BEVERAGES-----	276	-----	265	11
2099 MISCELLANEOUS FOOD PRODUCTS-----	13,827	-----	-----	13,827
2211 BASIC TEXTILE PRODUCTS-----	8	-----	8	-----
2311 APPAREL-----	5	-----	5	-----
2411 LOGS-----	75,338	-----	75,338	-----
2416 WOOD CHIPS, STAVES, HOLDINGS-----	146,343	-----	146,343	-----
2421 LUMBER-----	1,152	-----	1,118	34
2491 WOOD MANUFACTURES, NEC-----	69	-----	3	66
2511 FURNITURE AND FIXTURES-----	59	-----	59	-----
2631 PAPER AND PAPERBOARD-----	4	-----	4	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	4	-----	4	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	236,076	60,910	175,166	-----
2881 PAINTS-----	8	-----	4	4
2871 NITROGENOUS CHEM FERTILIZERS-----	156,661	-----	156,661	-----
2872 POTASSIC CHEM FERTILIZERS-----	4,398	-----	4,398	-----
2911 GASOLINE-----	26,644	26,644	-----	-----
2914 DISTILLATE FUEL OIL-----	73,682	73,682	-----	-----
2915 RESIDUAL FUEL OIL-----	113,908	113,908	-----	-----
2916 LUBRICATING OILS AND GREASES-----	52,347	52,347	-----	-----
2920 COKE, PETROLEUM COKE-----	309,353	-----	-----	309,353
3611 RUBBER AND MISC PLASTIC PROD-----	32	-----	25	7
3111 LEATHER AND LEATHER PRODUCTS-----	24	-----	13	11
3211 GLASS AND GLASS PRODUCTS-----	54	-----	42	12
3281 BUILDING CEMENT-----	112,785	-----	112,785	-----
3251 STRUCTURAL CLAY PRODUCTS-----	20	-----	20	-----

## SAN FRANCISCO, CA, DISTRICT

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## SUISUN BAY CHANNEL, CALIF.--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

FOREIGN--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	EXPORTS	THROUGH	
			UPBOUND	DOWNBOUND
3201 CUT STONE AND STONE PRODUCTS-----	10	-----	10	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	8,558	-----	8,558	-----
3324 ALUMINUM AND ALLOYS, UNWORKED-----	21	-----	21	-----
3411 FABRICATED METAL PRODUCTS-----	23	-----	23	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	1,691	1	1,360	330
3611 ELECTRICAL MACH AND EQUIP-----	57	7	48	2
3701 MISC TRANSPORTATION EQUIPMENT-----	10	-----	-----	10
3811 INSTR, TIME, PHOTO, OPT GOODS-----	3	-----	2	1
3911 MISC MANUFACTURED PRODUCTS-----	10	-----	9	1
4011 IRON AND STEEL SCRAP-----	84,575	-----	84,575	-----
4012 NONFERROUS METAL SCRAP-----	15,914	-----	15,869	45
4026 PAPER WASTE AND SCRAP-----	90	-----	-----	90
4112 COMMODITIES, NEC-----	33	-----	-----	33
9999 DEPARTMENT OF DEFENSE AND SCI-----	661	661	-----	-----

TON-MILES, FOREIGN, 31,982,280.

DOMESTIC  
(SHORT TONS)

COMMODITY	TOTAL	COASTWISE				INTERNAL			
		RECEIPTS		SHIPMENTS		THROUGH		INTERNAL	
		UPBOUND	DOWNSOUND	UPBOUND	DOWNSOUND	INBOUND	OUTBOUND	UPBOUND	DOWNSOUND
TOTAL-----	3,167,680	285,663	1,281,911	381,947	115,194	63,808	389,393	481,206	168,558
0105 RICE-----	50,592	-----	-----	50,592	-----	-----	-----	-----	-----
1311 CRUDE PETROLEUM-----	748,025	245,085	469,312	-----	-----	33,628	-----	-----	-----
1442 SAND, GRAVEL, CRUSHED ROCK-----	312,700	-----	-----	-----	-----	-----	169,100	2,600	141,000
1491 SALT-----	39,600	-----	-----	-----	-----	-----	-----	39,600	-----
2810 SODIUM HYDROXIDE-----	35,335	-----	-----	33,717	1,610	-----	-----	-----	-----
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	10,519	-----	-----	-----	-----	-----	10,519	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	203,307	-----	-----	189,121	14,186	-----	-----	-----	-----
2801 GUM AND WOOD CHEMICALS-----	8,277	-----	-----	8,277	-----	-----	-----	-----	-----
2871 NITROGENOUS CHEM FERTILIZERS-----	150,832	-----	-----	150,832	-----	-----	-----	-----	-----
2879 FERTILIZER AND MATERIALS, NEC-----	7,058	-----	-----	7,058	-----	-----	-----	-----	-----
2911 GASOLINE-----	629,840	14,635	597,076	-----	-----	10,342	7,767	-----	-----
2912 JET FUEL-----	1,298	-----	1,298	-----	-----	-----	-----	-----	-----
2914 DISTILLATE FUEL OIL-----	81,940	25,943	36,405	-----	-----	-----	17,592	-----	-----
2915 RESIDUAL FUEL OIL-----	201,226	-----	117,292	-----	-----	2,638	67,415	13,891	-----
2916 LUBRICATING OILS AND GREASES-----	2,966	-----	2,966	-----	-----	-----	-----	-----	-----
2917 NAPHTHA, PETROLEUM SOLVENTS-----	13,680	-----	-----	-----	-----	-----	13,680	-----	-----
2991 PETROLEUM AND COAL PROD, NEC-----	96,912	-----	55,572	-----	41,340	-----	-----	-----	-----
3011 RUBBER AND 413C PLASTIC PROD-----	15	-----	-----	-----	-----	-----	-----	15	-----
3201 MISC NONMETALLIC MINERAL PROD-----	27,558	-----	-----	-----	-----	-----	-----	-----	27,558
3511 MACHINERY, EXCEPT ELECTRICAL-----	1,900	-----	-----	-----	-----	-----	-----	1,900	-----
4026 WASTE AND SCRAP, NEC-----	103,200	-----	-----	-----	-----	102,900	300	-----	-----
4112 AUTOMOTIVE IMPROVEMENT MAT-----	440,500	-----	-----	-----	17,200	400	422,900	-----	-----

TON-MILES, DOMESTIC, 19,531,108.

TONS, ALL TRAFFIC, 5,005,496.  
TON-MILES, ALL TRAFFIC, 51,513,390.

## HUMBOLDT HARBOR AND BAY, CALIF.

SECTION INCLUDED: ENTRANCE CHANNEL TO BAY AND CHANNELS IN BAY BETWEEN ARCATA WHARF ON THE NORTH AND FIELDS LANDING ON THE SOUTH. CONTROLLING DEPTH: BAR ENTRANCE CHANNEL, 29.4 FEET; CHANNEL BETWEEN THE JETTIES 26.6 FEET; CHANNEL AT INTERSECTION OF FIELDS LANDING AND NORTH BAY CHANNEL, 27.7 FEET; NORTH BAY CHANNEL, 23.6 FEET TO STANDARD OIL WHARF AT BUCKSPORT, 34.7 FEET FOR REMAINDER OF CHANNEL; SANDA CHANNEL, 33.9 FEET; 30.5 FEET IN SANDA TURNING BASIN; EUREKA CHANNEL, 27.0 FEET TO ANGLE IN CHANNEL, 11.0 FEET TO "D" STREET, 9.2 FEET TO HEAD OF PROJECT; FIELDS LANDING CHANNEL, 28.2 FEET TO BUNNE POINT, 27.4 FEET AT BUNNE POINT, 27.1 FEET TO TURNING BASIN, 22.7 FEET IN TURNING BASIN, 17.2 FEET IN SOUTHEAST CORNER OF TURNING BASIN. PROJECT DEPTH: ENTRANCE CHANNEL, 40 FEET; NORTH BAY, SAMOA, AND LOWER PORTION OF EUREKA CHANNEL 30 FEET; UPPER PORTION OF EUREKA CHANNEL AND FIELDS LANDING CHANNEL, 26 FEET.

## COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1977-----	1,600,573	-----	1,640,573	1982-----	873,061	-----	873,061
1978-----	1,450,665	-----	1,450,665	1983-----	1,151,955	-----	1,151,955
1979-----	1,313,116	-----	1,313,116	1984-----	4,294,159	-----	4,294,159
1980-----	1,324,045	-----	1,324,045	1985-----	1,411,599	-----	1,411,599
1981-----	820,404	-----	820,404	1986-----	1,505,969	-----	1,505,969

## Waterborne Commerce of the United States, 1986

HUMBOLDT HARBOR AND BAY, CALIF.--CONTINUED  
FREIGHT TRAFFIC, 1986  
(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC COASTWISE	
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS
TOTAL-----	1,505,969	9,633	609,053	522,680	164,603
0119 OILSEEDS, NEC-----		8	-----	-----	-----
0133 COFFEE-----	10	10	-----	-----	-----
0141 FRESH AND FROZEN VEGETABLES-----	24	14	10	-----	-----
0191 MISCELLANEOUS FARM PRODUCTS-----	1	1	-----	-----	-----
2012 MEAT AND PRODUCTS, NEC-----	45	45	-----	-----	-----
2031 FISH AND SHELLFISH, PREPARED-----	1	1	-----	-----	-----
2034 VEGETABLES AND PREP., NEC-----	72	72	-----	-----	-----
2089 GRAIN MILL PRODUCTS, NEC-----	35	35	-----	-----	-----
2081 ALCOHOLIC BEVERAGES-----	620	620	-----	-----	-----
2091 VEGETABLE OILS, MARG., SHDRY-----	7	7	-----	-----	-----
2095 ICE-----	24	24	-----	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	203	203	-----	-----	-----
2211 BASIC TEXTILE PRODUCTS-----	65	65	-----	-----	-----
2311 APPAREL-----	1	1	-----	-----	-----
2411 LOGS-----	46,011	46,011	-----	-----	-----
2416 WOOD CHIPS, STAVES, HOLDINGS-----	399,184	399,184	-----	-----	-----
2421 LUMBER-----	179,760	235	14,930	164,603	-----
2431 VENEER, PLYWOOD, WORKED WOOD-----	310	310	-----	-----	-----
2491 WOOD MANUFACTURES, NEC-----	58	46	12	-----	-----
2511 FURNITURE AND FIXTURES-----	515	515	-----	-----	-----
2611 PULP-----	344,909	344,909	-----	-----	-----
2631 PAPER AND PAPERBOARD-----	1,205	80	1,125	-----	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	40	40	-----	-----	-----
2711 PRINTED MATTER-----	29	29	-----	-----	-----
2810 SODIUM HYDROXIDE-----	87,426	-----	-----	87,426	-----
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	1	56	56	-----	-----
2818 SULPHURIC ACID-----	6,793	-----	-----	6,793	-----
2819 BASIC CHEMICALS AND PROD., NEC-----	21,204	3,140	-----	18,064	-----
2821 PLASTIC MATERIALS-----	25	25	-----	-----	-----
2841 SOAP-----	56	56	-----	-----	-----
2851 PAINTS-----	10	10	-----	-----	-----
2871 NITROGENOUS CHEM FERTILIZERS-----	59	59	-----	-----	-----
2891 MISCELLANEOUS CHEMICAL PROD-----	74	74	-----	35,000	-----
2911 GASOLINE-----	35,074	-----	-----	25,786	-----
2914 DISTILLATE FUEL OIL-----	25,768	-----	-----	25,786	-----
2915 RESIDUAL FUEL OIL-----	54,071	-----	-----	54,071	-----
2991 PETROLEUM AND COAL PROD., NEC-----	39,666	-----	-----	39,666	-----
3011 RUBBER AND MISC PLASTIC PROD-----	255,852	-----	-----	255,852	-----
3111 LEATHER AND LEATHER PRODUCTS-----	113	113	-----	-----	-----
3211 GLASS AND GLASS PRODUCTS-----	9	9	-----	-----	-----
3251 STRUCTURAL CLAY PRODUCTS-----	152	152	-----	-----	-----
3281 CUT STONE AND STONE PRODUCTS-----	127	127	-----	-----	-----
3291 MISC NONMETALLIC MINERAL PROD-----	40	40	-----	-----	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	27	27	-----	-----	-----
3316 IRON AND STEEL PLATES, SHEETS-----	1,272	1,272	-----	-----	-----
3321 NONFERROUS METALS, NEC-----	656	656	-----	-----	-----
3411 FABRICATED METAL PRODUCTS-----	2	2	-----	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	58	50	8	-----	-----
3611 ELECTRICAL MACH AND EQUIP-----	892	892	-----	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	151	151	-----	-----	-----
3931 MISC MANUFACTURED PRODUCTS-----	44	44	-----	-----	-----
4112 COMMODITIES, NEC-----	115	115	-----	-----	-----
	866	2	604	-----	-----

TOTAL TON-MILES, 8,992,262.

## SAN FRANCISCO, CA, DISTRICT

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## OTHER HARBORS AND WATERWAYS

HARBOR OR WATERWAY	COMMODITY	TONS	TOTAL TON-MILES	PASSENGERS
PROJECT				
BERKELEY, CALIF.	NO COMMERCE REPORTED			67,107
BODEGA BAY, CALIF.	NO COMMERCE REPORTED			
CRESCENT CITY HARBOR, CALIF.				
HALF MOON BAY, CALIF.	3291 MISC NONMETALLIC MINERAL PROD----- 4029 WASTE AND SCRAP, NEC-----  TOTAL-----	900 1,000  1,900		
MONTEREY HARBOR, CALIF.	3511 MACHINERY, EXCEPT ELECTRICAL-----	130		
MOSS LANDING HARBOR, CALIF.	NO COMMERCE REPORTED			
VAPA RIVER, CALIF.	1491 SALT----- 3411 FABRICATED METAL PRODUCTS----- 4118 WATERWAY IMPROVEMENT MAT-----  TOTAL-----	39,600 207 2,000  41,807	343,284	
VOYO RIVER, CALIF.	NO COMMERCE REPORTED			
PETALUMA RIVER, CALIF.	1442 SAND, GRAVEL, CRUSHED ROCK----- 3291 MISC NONMETALLIC MINERAL PROD----- 3511 MACHINERY, EXCEPT ELECTRICAL-----  TOTAL-----	108,300 900 130  109,330	2,057,930	
SAN RAFAEL CREEK, CALIF.	NO COMMERCE REPORTED			
SANTA CRUZ HARBOR, CALIF.	NO COMMERCE REPORTED			
SUISUN CHANNEL, CALIF.	2915 RESIDUAL FUEL OIL-----	18,707	203,191	
NONPROJECT				
OTHER SAN FRANCISCO BAY AREA PORTS, CALIF. (NET)	0105 RICE----- 0133 COFFEE----- 0861 FOREST PRODUCTS, NEC----- 0911 FRESH FISH, EXCEPT SHELLFISH----- 1311 CRUDE PETROLEUM----- 1442 SAND, GRAVEL, CRUSHED ROCK----- 2011 MEAT, FRESH, CHILLED, FROZEN----- 2081 ALCOHOLIC BEVERAGES----- 2211 BASIC TEXTILE PRODUCTS----- 2421 LUMBER----- 2511 FURNITURE AND FIXTURES----- 2611 CRUDE TAR, OIL, GAS PRODUCTS----- 2619 BASIC CHEMICALS AND PROD, NEC----- 2821 PLASTIC MATERIALS----- 2841 SOAP----- 2911 GASOLINE----- 2912 JET FUEL----- 2916 DISTILLATE FUEL OIL----- 2915 RESIDUAL FUEL OIL----- 2991 PETROLEUM AND COAL PROD, NEC----- 3011 RUBBER AND MISC PLASTIC PROD----- 3211 GLASS AND GLASS PRODUCTS----- 3291 MISC NONMETALLIC MINERAL PROD----- 3411 FABRICATED METAL PRODUCTS----- 3511 MACHINERY, EXCEPT ELECTRICAL----- 3611 ELECTRICAL MACH AND EQUIP----- 3711 MOTOR VEHICLES, PARTS, EQUIP----- 3811 INSTR, TIME, PHOTO, OPT GOOD----- 3911 MISC MANUFACTURED PRODUCTS----- 4029 WASTE AND SCRAP, NEC----- 4111 WATER----- 4112 COMMODITIES, NEC----- 4118 WATERWAY IMPROVEMENT MAT----- 9999 DEPARTMENT OF DEFENSE AND BCI-----  TOTAL-----	7,344 750 240 27 11,037,303 914,063 113 186 197 27 22 5,157 56 15 2 48,527 125,207 136,132 617,302 4,340 419 36 8,600 257 1,352 260 7,437 163 10 3,986,727 900 0 652,300 136		3,962,266

*Waterborne Commerce of the United States, 1986*  
**PACIFIC OCEAN DIVISION**

HILO HARBOR, HAWAII, HAWAII

SECTION INCLUDED: PORT OF HILO, CONTROLLING DEPTH: 34.0 FEET, PROJECT DEPTH: 35 FEET.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1977-----	1,013,430	8,381	1982-----	1,381,996	-----
1978-----	1,272,734	3,207	1983-----	1,522,462	-----
1979-----	1,220,438	-----	1984-----	1,570,528	-----
1980-----	1,102,019	-----	1985-----	1,318,518	-----
1981-----	1,441,590	-----	1986-----	1,198,692	-----

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC COASTWISE	
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS
TOTAL-----	1,198,692	18,315	28,259	698,064	454,054
0105 RICE-----	1,029	-----	-----	1,029	-----
0122 HAY AND FODDER-----	344	-----	12	332	-----
0131 FRESH FRUITS-----	5,117	-----	946	4,171	-----
0133 COFFEE-----	822	-----	14	804	-----
0141 FRESH AND FROZEN VEGETABLES-----	8,912	-----	6,265	2,647	-----
0151 LIVE ANIMALS-----	398	-----	352	46	-----
0161 ANIMALS AND PRODUCTS, NEC-----	399	-----	399	-----	-----
0861 FOREST PRODUCTS, NEC-----	3,971	-----	206	3,765	-----
0912 SHELLFISH, EXCEPT PREPARED-----	213	-----	213	-----	-----
1091 NONFERROUS ORES, CONCENT, NEC-----	153	-----	153	-----	-----
1491 SALT-----	473	-----	473	-----	-----
1494 GYPSUM, CRUDE AND PLASTERS-----	502	-----	502	-----	-----
1911 ORDNANCE AND ACCESSORIES-----	49	-----	38	11	-----
2011 MEAT, FRESH, CHILLED, FROZEN-----	10,404	-----	9,173	1,231	-----
2015 ANIMAL BY-PRODUCTS, NEC-----	301	-----	-----	301	-----
2021 DAIRY PRODUCTS, NEC-----	529	-----	529	-----	-----
2034 VEGETABLES AND PREP, NEC-----	24,618	-----	10,635	13,979	-----
2039 PREP FRUIT AND VEG JUICE, NEC-----	2,091	-----	953	1,136	-----
2042 ANIMAL FEEDS-----	635	-----	635	-----	-----
2049 GRAIN MILL PRODUCTS, NEC-----	20,222	-----	20,150	72	-----
2061 SUGAR-----	149,459	-----	59	149,400	-----
2062 MOLASSES-----	45,532	28,233	1,800	15,899	-----
2081 ALCOMOLIC BEVERAGES-----	13,798	-----	13,798	-----	-----
2091 VEGETABLE OILS, MARC, SHORT-----	577	-----	577	-----	-----
2094 GROCERIES-----	7,951	-----	7,919	32	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	94,728	28	33,008	61,692	-----
2211 BASIC TEXTILE PRODUCTS-----	248	-----	248	-----	-----
2413 FUEL WOOD, CHARCOAL, WASTES-----	1,312	-----	1,282	30	-----
2414 TIMBER, POSTS, POLES, PILING-----	90	-----	79	11	-----
2421 LUMBER-----	10,056	26	8,946	1,086	-----
2431 VENEER, PLYWOOD, WORKED WOOD-----	1,942	-----	1,942	-----	-----
2491 WOOD MANUFACTURES, NEC-----	15,087	-----	5,816	9,671	-----
2511 FURNITURE AND FIXTURES-----	5,999	-----	4,905	1,084	-----
2621 STANDARD NEWSPRINT PAPER-----	153	-----	153	-----	-----
2631 PAPER AND PAPERBOARD-----	1,571	-----	1,559	12	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	17,184	-----	16,821	363	-----
2711 PRINTED MATTER-----	52	-----	52	-----	-----
2810 SODIUM HYDROXIDE-----	2,980	-----	2,960	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	3,968	1,870	2,071	23	-----
2821 PLASTIC MATERIALS-----	529	-----	529	-----	-----
2861 SOAP-----	1,603	-----	1,603	-----	-----
2861 PAINTS-----	775	-----	775	-----	-----
2871 NITROGENOUS CHEM FERTILIZERS-----	11,460	4,868	6,592	-----	-----
2872 POTASSIC CHEM FERTILIZERS-----	5,860	5,860	-----	-----	-----
2873 PHOSPHATIC CHEM FERTILIZERS-----	1,483	-----	1,483	-----	-----
2876 INSECTICIDES, DISINFECTANTS-----	575	-----	574	1	-----
2879 FERTILIZER AND MATERIALS, NEC-----	15,940	4,807	9,666	1,467	-----
2911 GASOLINE-----	426	-----	426	-----	-----
2912 JET FUEL-----	63,936	-----	63,936	-----	-----
2914 DISTILLATE FUEL OIL-----	6,351	-----	6,351	-----	-----
2915 RESIDUAL FUEL OIL-----	20,901	-----	20,901	-----	-----
2918 LUBRICATING OILS AND GREASES-----	63,689	-----	57,902	5,787	-----
2921 ASPHALT GASES-----	289	-----	289	-----	-----
2951 ASPHALT BUILDING MATERIALS-----	171	-----	171	-----	-----
2991 PETROLEUM AND COAL PROD, NEC-----	13,776	-----	13,776	-----	-----
3011 RUBBER AND MISC PLASTIC PROD-----	65	-----	65	-----	-----
3211 GLASS AND GLASS PRODUCTS-----	1,833	-----	1,833	-----	-----
3241 BUILDING CEMENT-----	4,073	-----	3,966	107	-----
3251 STRUCTURAL CLAY PRODUCTS-----	450	-----	454	4	-----
3281 CUT STONE AND STONE PRODUCTS-----	13,189	-----	12,562	627	-----
3291 MISC NONMETALLIC MINERAL PROD-----	273	-----	273	-----	-----
3312 SLAG-----	64	-----	64	-----	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	4,264	-----	4,264	-----	-----
3316 IRON AND STEEL PLATES, SHEETS-----	115	-----	115	-----	-----
3317 IRON AND STEEL PIPE AND TUBE-----	3,076	-----	3,073	3	-----
3411 FABRICATED METAL PRODUCTS-----	1,868	-----	1,868	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	2,427	-----	2,427	-----	-----
3611 ELECTRICAL MACH AND EQUIP-----	281,672	-----	143,904	137,768	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	1,099	60	897	142	-----
3721 AIRCRAFT AND PARTS-----	230	-----	234	-----	-----
3731 SHIPS AND BOATS-----	95,993	822	69,758	25,413	-----
	1,327	-----	1,034	293	-----

## PACIFIC OCEAN DIVISION

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MILDE HARBOR, HAWAII, HAWAII--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC COASTWISE	
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS
3791 MISC TRANSPORTATION EQUIPMENT-----	12,913			9,704	3,209
3911 MISC MANUFACTURED PRODUCTS-----	3,307			2,765	562
4011 IRON AND STEEL SCRAP-----	996				996
4112 COMMODITIES, NEC-----	103,269			93,519	9,770
4119 EMPTY CONTAINERS-----	131			16	115

KAWAIHAE HARBOR, HAWAII, HAWAII

SECTION INCLUDED: PORT OF KAWAIHAE. CONTROLLING DEPTH: 42.0 FEET IN ENTRANCE CHANNEL AND 36.0 FEET IN HARBOR BASIN. PROJECT DEPTH: HARBOR BASIN 35 FEET; ENTRANCE CHANNEL 60 FEET.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONE	YEAR	TONE
1977-----	318,197	1982-----	441,130
1978-----	502,451	1983-----	441,456
1979-----	447,521	1984-----	545,508
1980-----	516,116	1985-----	526,639
1981-----	432,704	1986-----	592,016

## FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC COASTWISE	
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS
TOTAL-----	592,016	10,000	15,813	255,648	310,557
0122 HAY AND FODDER-----	21				21
0141 FRESH AND FROZEN VEGETABLES-----	15			15	
0151 LIVE ANIMALS-----	47,017			5,960	41,057
0861 FOREST PRODUCTS, NEC-----	16			16	
1442 SAND, GRAVEL, CRUSHED ROCK-----	5,000			5,000	
1911 ORDNANCE AND ACCESSORIES-----	13			13	
2034 VEGETABLES AND PREP, NEC-----	7,341			1,225	6,116
2042 ANIMAL FEEDS-----	8,401			964	7,437
2089 GRAIN MILL PRODUCTS, NEC-----	225			225	
2061 SUGAR-----	137,365				137,365
2062 MOLASSES-----	20,913		15,813		5,100
2081 ALCOHOLIC BEVERAGES-----	76			76	
2099 MISCELLANEOUS FOOD PRODUCTS-----	29,686			9,270	20,416
2411 LOGS-----	12			12	
2413 FUEL WOOD, CHARCOAL, WASTES-----	3			3	
2419 TIMBER, POSTS, POLES, PILING-----	25			25	
2421 LUMBER-----	3,347			2,794	553
2431 VENEER, PLYWOOD, WORKED WOOD-----	34			34	
2491 WOOD MANUFACTURES, NEC-----	3,163			1,078	2,085
2511 FURNITURE AND FIXTURES-----	2,026			1,996	30
2621 STANDARD NEWSPRINT PAPER-----	38			38	
2631 PAPER AND PAPERBOARD-----	113			113	
2691 PULP AND PAPER PRODUCTS, NEC-----	2,138			2,136	2
2819 BASIC CHEMICALS AND PROD, NEC-----	967			967	
2871 NITROGENOUS CHEM FERTILIZERS-----	210			210	
2879 FERTILIZER AND MATERIALS, NEC-----	2,539			1,893	646
2891 MISCELLANEOUS CHEMICAL PROD-----	6			6	
2911 GASOLINE-----	14,087			14,087	
2914 DISTILLATE FUEL OIL-----	7,069			7,069	
2918 ASPHALT, TAR, AND PITCHES-----	926			926	
3011 RUBBER AND MISC PLASTIC PROD-----	716			718	
3201 GLASS AND GLASS PRODUCTS-----	287			9	278
3201 BUILDING CEMENT-----	25,807	10,000		15,059	748
3291 MISC NONMETALLIC MINERAL PROD-----	247			247	
3315 IRON, STEEL SHAPES, EXC SHEET-----	2,274			2,274	
3317 IRON AND STEEL PIPE AND TUBE-----	586			586	
3411 FABRICATED METAL PRODUCTS-----	124,908			63,699	61,209
3511 MACHINERY, EXCEPT ELECTRICAL-----	33			33	
3711 MOTOR VEHICLES, PARTS, EQUIP-----	85,999			69,392	18,607
3731 SHIPS AND BOATS-----	2,661			1,603	1,038
3791 MISC TRANSPORTATION EQUIPMENT-----	16,827			10,854	5,973
3911 MISC MANUFACTURED PRODUCTS-----	1			1	
4011 IRON AND STEEL SCRAP-----	38			38	
4112 COMMODITIES, NEC-----	38,858			38,982	3,876

## Waterborne Commerce of the United States, 1986

KAHULUI HARBOR, MAUI, HAWAII

SECTION INCLUDED: PORT OF KAHULUI. CONTROLLING DEPTH: 34.0 FEET. PROJECT DEPTH: 35 FEET.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1977	1,301,095	8,390	1982	1,483,955	
1978	1,922,112	3,879	1983	1,842,568	
1979	1,473,307		1984	1,889,204	
1980	1,441,524		1985	1,516,509	
1981	1,551,944		1986	1,620,650	

## FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC COASTWISE	
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS
TOTAL	1,626,650	83,379	78,485	873,387	631,399
0105 RICE	1,094			1,071	23
0122 HAY AND FOUDER	493			493	
0131 FRESH FRUITS	1,139			817	322
0133 COFFEE	1			1	
0141 FRESH AND FROZEN VEGETABLES	7,071			7,025	46
0151 LIVE ANIMALS	13,565			4,063	9,502
0161 ANIMALS AND PRODUCTS, NEC	20			20	
0861 FOREST PRODUCTS, NEC	409			203	206
0912 SHELLFISH, EXCEPT PREPARED	217			217	
1091 NOVFERROUS ORES, CONCENT, NEC	219			219	
1442 SAND, GRAVEL, CRUSHED ROCK	93,088			16,171	76,917
1451 CLAY	191			191	
1491 SALT	63			63	
1494 CYPSUM, CRUDE AND PLASTERS	864			864	
1911 ORDNANCE AND ACCESSORIES	21			21	
2011 MEAT, FRESH, CHILLED, FROZEN	7,697			7,664	33
2015 ANIMAL BY-PRODUCTS, NEC	50			50	
2021 DAIRY PRODUCTS, NEC	916			916	
2034 VEGETABLES AND PREP, NEC	22,611			12,086	10,525
2039 PREP FRUIT AND VEG JUICE, NEC	121,780			294	121,486
2041 MEAT FLOUR AND SEMOLINA	567			567	
2042 ANIMAL FEEDS	22,478			22,458	20
2049 GRAIN MILL PRODUCTS, NEC	18			18	
2051 SUGAR	145,687			26	145,661
2062 MOLASSES	90,305		55,590		34,715
2081 ALCOHOLIC BEVERAGES	17,144			17,118	26
2091 VEGETABLE OILS, MARC, SHORT	899			899	
2094 GROCERIES	8,114			8,105	9
2099 MISCELLANEOUS FOOD PRODUCTS	63,140			69,599	13,541
2211 BASIC TEXTILE PRODUCTS	374			374	
2411 LOGS	36			36	
2413 FUEL WOOD, CHARCOAL, WASTES	1,100			1,099	1
2414 TIMBER, POSTS, POLES, PILING	295			295	
2416 WOOD CHIPS, STAVES, HOLDINGS	3,269		3,269		
2421 LUMBER	14,754			14,030	724
2431 VENEER, PLYWOOD, HORNEAD WOOD	3,370			3,370	
2491 WOOD MANUFACTURES, NEC	16,334			5,275	11,059
2511 FURNITURE AND FIXTURES	7,616			6,635	981
2621 STANDARD NEWSPRINT PAPER	56			50	
2631 PAPER AND PAPERBOARD	1,671			1,612	59
2691 PULP AND PAPER PRODUCTS, NEC	18,233			17,353	880
2711 PRINTED MATTER	59			59	
2810 SODIUM HYDROXIDE	100			100	
2816 RADIODACTIVE MATERIALS, WASTES	9			9	
2818 SULPHURIC ACID	143			143	
2819 BASIC CHEMICALS AND PROD, NEC	1,549	191		1,358	
2821 PLASTIC MATERIALS	1,205			1,205	
2831 DRUGS	6			4	
2841 SOAP	801			801	
2851 PAINTS	359			359	
2871 NITROGENOUS CHEM FERTILIZERS	11,289	4,073		7,192	24
2872 POTASSIC CHEM FERTILIZERS	431	431			
2873 PHOSPHATIC CHEM FERTILIZERS	600			600	
2876 INSECTICIDES, DISINFECTANTS	617			617	
2879 FERTILIZER AND MATERIALS, NEC	1,641			1,611	30
2891 MISCELLANEOUS CHEMICAL PROD	882		30	852	
2911 GASOLINE	51,812			51,812	
2912 JET FUEL	53,766	30,870		22,898	
2914 DISTILLATE FUEL OIL	38,711		19,590	19,121	
2915 RESIDUAL FUEL OIL	40,114			40,114	
2916 LUBRICATING OILS AND GREASES	637		4	633	
2918 ASPHALT, TAR, AND PITCHES	537			531	5
2921 LIQUEFIED GASES	11,876			11,878	
2951 ASPHALT BUILDING MATERIALS	323			323	
2991 PETROLEUM AND COAL PROD, NEC	1,265			1,265	
3011 RUBBER AND MISC PLASTIC PROD	4,294			4,091	203
3211 GLASS AND GLASS PRODUCTS	296			294	2
3241 BUILDING CEMENT	32,384			31,575	809
3251 STRUCTURAL CLAY PRODUCTS	66			66	
3291 MISC NONMETALLIC MINERAL PROD	9,480			9,478	10
3312 SLAG	1,943			1,864	1,879
3315 IRON, STEEL SHAPES, EXC SHEET	6,996	5,112		1,859	25
3316 IRON AND STEEL PLATES, SHEETS	732			732	
3317 IRON AND STEEL PIPE AND TUBE	2,087			2,087	
3411 FABRICATED METAL PRODUCTS	310,335	2		180,205	121,088
3511 MACHINERY, EXCEPT ELECTRICAL	2,141		2	2,093	46
3611 ELECTRICAL MACH AND EQUIP	635			634	1

## PACIFIC OCEAN DIVISION

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KAHULUI HARBOR, MAUI, HAWAII--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC	
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS
3711 MOTOR VEHICLES, PARTS, EQUIP-----	156,021	2,700	-----	102,168	51,953
3721 AIRCRAFT AND PARTS-----	21	-----	-----	16	16
3731 SHIPS AND BOATS-----	2,785	-----	-----	2,522	463
3791 MISC TRANSPORTATION EQUIPMENT-----	28,833	-----	-----	20,670	7,965
3911 MISC MANUFACTURED PRODUCTS-----	2,129	-----	-----	1,347	742
4011 IRON AND STEEL SCRAP-----	1,602	-----	-----	15	1,567
4112 COMMODITIES, NEC-----	156,156	-----	-----	138,379	17,777
4119 EMPTY CONTAINERS-----	399	-----	-----	14	385

BARBERS POINT HARBOR, OAHU, HAWAII

SECTION INCLUDED: BARBERS POINT HARBOR. CONTROLLING DEPTHS: 42 FEET IN THE ENTRANCE CHANNEL AND 38 FEET IN THE MAIN ACCESS CHANNEL AND BASIN. PROJECT DEPTHS: 42 FEET IN THE ENTRANCE CHANNEL; 38 FEET IN THE DEEP-DRAFT HARBOR MAIN ACCESS CHANNEL AND BASIN; 71 FEET IN LIGHT-DRAFT HARBOR BASIN.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977-----	6,630,994	1982-----	5,707,386
1978-----	6,306,580	1983-----	7,051,230
1979-----	6,154,541	1984-----	6,564,687
1980-----	5,725,722	1985-----	6,751,709
1981-----	5,589,741	1986-----	5,629,312

## FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC	
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS
TOTAL-----	5,629,312	2,911,280	200,650	2,241,457	274,698
1311 CRUDE PETROLEUM-----	4,644,980	2,911,258	-----	1,733,682	-----
1402 SAND, GRAVEL, CRUSHED ROCK-----	3,835	-----	-----	3,835	-----
2911 GASOLINE-----	61,774	-----	-----	35,127	26,647
2912 JET FUEL-----	10,285	26	-----	10,259	-----
2914 DISTILLATE FUEL OIL-----	136,361	-----	-----	100,774	35,587
2915 RESIDUAL FUEL OIL-----	725,369	-----	186,818	361,615	175,711
2917 NAPHTHA, PETROLEUM SOLVENTS-----	22,226	-----	13,832	-----	8,394
2921 LIQUEFIED GASES-----	24,522	-----	-----	-----	24,522

HONOLULU HARBOR, OAHU, HAWAII

SECTION INCLUDED: PORT OF HONOLULU. CONTROLLING DEPTHS: 45.0 FEET IN THE ENTRANCE CHANNEL; 40.0 FEET IN THE MAIN HARBOR BASINS; 40.0 FEET IN KAPALAMA BASIN; 40.0 FEET IN THE CONNECTING CHANNEL. PROJECT DEPTHS: 45.0 FEET IN THE ENTRANCE CHANNEL; 40 FEET IN HARBOR BASIN; CONNECTING CHANNEL; 35.0 FEET IN KALIHI CHANNEL.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1977-----	6,881,556	303,291	1982-----	7,593,007	465,366
1978-----	7,750,537	183,721	1983-----	8,039,850	686,689
1979-----	7,463,663	311,899	1984-----	8,469,971	741,922
1980-----	7,646,270	547,242	1985-----	7,986,133	1,102,398
1981-----	8,269,671	521,624	1986-----	8,603,760	708,268

## FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		LOCAL
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	
TOTAL-----	8,603,760	632,632	150,514	4,343,436	3,301,853	7,395
0102 BARLEY AND RYE-----	51,902	51,893	0	-----	-----	-----
0103 CORN-----	4,845	-----	-----	4,845	-----	-----
0105 RICE-----	50,894	871	1,362	45,511	3,150	-----
0106 SORGHUM GRAINS-----	10	-----	10	-----	-----	-----
0111 SOYBEANS-----	45	4	-----	41	-----	-----
0119 OILSEEDS, NEC-----	1,680	1,880	-----	-----	-----	-----
0122 HAY AND FODDER-----	1,472	-----	-----	1,430	42	-----
0129 FIELD CROPS, NEC-----	39	24	15	-----	-----	-----
0131 FRESH FRUITS-----	426,582	1,481	57	335,507	89,497	-----
0132 BANANAS AND PLANTAINS-----	5,493	6	-----	5,487	-----	-----
0133 COFFEE-----	3,222	-----	76	2,216	930	-----
0161 FRESH AND FROZEN VEGETABLES-----	124,289	1,316	76	102,129	20,765	-----

## Waterborne Commerce of the United States, 1986

HONOLULU HARBOR, DANU, HAWAII--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC				LOCAL	
				COASTWISE		INTERNAL			
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS		
0151 LIVE ANIMALS-----	79,373	17	-----	67,508	11,848	-----	-----		
0161 ANIMALS AND PRODUCTS, NEC-----	2,120	86	46	1,556	432	-----	-----		
0191 MISCELLANEOUS FARM PRODUCTS-----	124	51	73	-----	-----	-----	-----		
0861 FOREST PRODUCTS, NEC-----	11,226	321	1	5,769	5,135	-----	-----		
0911 FRESH FISH, EXCEPT SHELLFISH-----	3,517	3,434	83	-----	-----	-----	-----		
0912 SHELLFISH, EXCEPT PREPARED-----	6,261	683	12	4,662	724	-----	-----		
0931 MARINE SHELLS, UNMANUFACTURED-----	60	60	-----	-----	-----	-----	-----		
1011 IRON ORE AND CONCENTRATES-----	9,649	9,649	-----	-----	-----	-----	-----		
1091 NONFERROUS ORES, CONCENT, NEC-----	2,162	-----	-----	1,751	411	-----	-----		
1311 CRUDE PETROLEUM-----	420,343	77,283	-----	343,000	-----	-----	-----		
1412 BUILDING STONE, UNWORKED-----	21	-----	20	1	-----	-----	-----		
1482 SAND, GRAVEL, CRUSHED ROCK-----	195,610	22,335	-----	64,930	107,745	-----	-----		
1451 CLAY-----	572	58	1	322	191	-----	-----		
1471 PHOSPHATE ROCK-----	12	-----	12	-----	-----	-----	-----		
1491 SALT-----	11,133	-----	-----	10,597	536	-----	-----		
1492 SULPHUR, DRY-----	6,211	-----	6,211	-----	-----	-----	-----		
1494 GYPSUM, CRUDE AND PLASTERS-----	8,239	-----	-----	6,735	1,504	-----	-----		
1499 NONMETALLIC MINERALS, NEC-----	5,689	1	53	5,635	-----	-----	-----		
1911 ORDNANCE AND ACCESSORIES-----	136	9	-----	47	80	-----	-----		
2011 MEAT, FRESH, CHILLED, FROZEN-----	139,524	6,142	1,067	110,028	22,287	-----	-----		
2012 MEAT AND PRODUCTS, NEC-----	282	60	202	20	-----	-----	-----		
2015 ANIMAL BY-PRODUCTS, NEC-----	1,172	-----	263	413	496	-----	-----		
2021 DAIRY PRODUCTS, NEC-----	17,286	562	15	15,201	1,508	-----	-----		
2022 DRIED MILK AND CREAM-----	769	566	205	-----	-----	-----	-----		
2031 FISH AND SHELLFISH, PREPARED-----	3,566	3,562	4	-----	-----	-----	-----		
2034 VEGETABLES AND PREP, NEC-----	166,808	8,017	139	125,799	32,853	-----	-----		
2039 PREP FRUIT AND VEG JUICE, NEC-----	398,930	5,456	3,764	131,569	250,141	-----	-----		
2041 WHEAT FLOUR AND SEMOLINA-----	12,493	-----	1,479	9,768	1,246	-----	-----		
2042 ANIMAL FEEDS-----	141,131	20,718	324	63,919	56,170	-----	-----		
2049 GRAIN MILL PRODUCTS, NEC-----	13,834	12,248	1,024	510	52	-----	-----		
2061 SUGAR-----	126,089	40	510	1,419	124,720	-----	-----		
2062 MOLASSES-----	275,392	-----	-----	106,422	168,970	-----	-----		
2081 ALCOHOLIC BEVERAGES-----	196,630	6,872	576	151,330	37,852	-----	-----		
2091 VEGETABLE OILS, MAHG, SHORT-----	19,475	187	88	17,423	1,777	-----	-----		
2094 GROCERIES-----	109,121	-----	-----	89,615	19,506	-----	-----		
2099 MISCELLANEOUS FOOD PRODUCTS-----	256,616	5,342	2,909	126,762	121,605	-----	-----		
2111 TUBACCO MANUFACTURES-----	1,669	160	-----	1,703	6	-----	-----		
2211 BASIC TEXTILE PRODUCTS-----	7,799	2,964	245	3,929	661	-----	-----		
2212 TEXTILE FIBERS, NEC-----	3	-----	3	-----	-----	-----	-----		
2311 APPAREL-----	962	933	9	-----	-----	-----	-----		
2411 LOGS-----	2,745	-----	66	2,631	48	-----	-----		
2413 FUEL WOOD, CHARCOAL, WASTES-----	10,897	345	-----	7,750	2,802	-----	-----		
2414 TIMBER, POSTS, POLES, PILING-----	640	9	7	504	120	-----	-----		
2421 LUMBER-----	190,375	342	2,135	164,795	23,103	-----	-----		
2451 VENEER, PLYWOOD, WORKED WOOD-----	58,941	1,268	530	32,518	4,605	-----	-----		
2491 WOOD MANUFACTURES, NEC-----	97,526	1,971	72	61,472	34,013	-----	-----		
2511 FURNITURE AND FIXTURES-----	98,835	4,785	49	34,846	59,555	-----	-----		
2611 PULP-----	776	-----	300	976	-----	-----	-----		
2621 STANDARD NEWSPRINT PAPER-----	25,499	21,239	-----	4,270	-----	-----	-----		
2631 PAPER AND PAPERBOARD-----	32,979	311	7	20,696	3,965	-----	-----		
2691 PULP AND PAPER PRODUCTS, NEC-----	114,168	899	131	74,109	39,029	-----	-----		
2711 PRINTED MATTER-----	9,282	1,075	10	7,221	176	-----	-----		
2810 SODIUM HYDROXIDE-----	1,749	-----	1,749	-----	-----	-----	-----		
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	1	1	-----	-----	-----	-----	-----		
2812 DYES, PIGMENT, TANNING MATS-----	1,480	-----	-----	1,480	-----	-----	-----		
2013 ALCOHOLS-----	4	-----	4	-----	-----	-----	-----		
2016 RADIOACTIVE MATERIALS, WASTES-----	800	-----	-----	24	776	-----	-----		
2017 BENZENE AND TOLUENE-----	22,002	22,002	-----	-----	-----	-----	-----		
2018 SULPHURIC ACID-----	183	-----	-----	-----	183	-----	-----		
2019 BASIC CHEMICALS AND PROD, NEC-----	23,763	1,452	19	16,845	5,847	-----	-----		
2021 PLASTIC MATERIALS-----	6,778	748	21	6,093	1,916	-----	-----		
2031 DRUGS-----	3,547	100	6	3,402	39	-----	-----		
2041 SOAP-----	30,209	360	102	27,036	2,711	-----	-----		
2051 PAINTS-----	13,963	45	67	12,501	1,350	-----	-----		
2071 NITROGENOUS CHEM FERTILIZERS-----	57,137	6,677	-----	35,515	14,945	-----	-----		
2072 POTASSIUM CHEM FERTILIZERS-----	2,583	2,583	-----	-----	-----	-----	-----		
2073 PHOSPHATIC CHEM FERTILIZERS-----	1,500	-----	-----	1,500	-----	-----	-----		
2076 INSECTICIDES, DISINFECTANTS-----	4,670	-----	5	2,695	1,970	-----	-----		
2079 FERTILIZER AND MATERIALS, NEC-----	16,714	2,246	198	4,884	9,390	-----	-----		
2091 MISCELLANEOUS CHEMICAL PROD-----	4,657	233	132	3,055	1,437	-----	-----		
2091 GASOLINE-----	203,845	3,600	19,693	24,400	151,878	-----	4,268		
2092 JET FUEL-----	245,079	112,232	-----	92,518	36,680	-----	3,649		
2094 DISTILLATE FUEL OIL-----	69,386	-----	-----	1	67,783	-----	1,604		
2015 RESIDUAL FUEL OIL-----	340,215	-----	13,380	87,068	74,203	7,395	46,672	111,497	
2016 LUBRICATING OILS AND GREASES-----	7,327	-----	22	5,822	1,483	-----	-----		
2017 ASPHALT, TAR, AND PITCHES-----	5,033	-----	5,033	-----	-----	-----	-----		
2021 LIQUEFIED GASES-----	25,179	-----	-----	20,793	4,386	-----	-----		
2021 7,477	9	59	-----	-----	7,409	-----	-----		
2021 3,021	-----	397	3,074	-----	350	-----	-----		
2021 25,152	1	-----	21,223	-----	3,928	-----	-----		
2021 27,492	5,043	540	9,668	-----	12,287	-----	-----		
3111 LEATHER AND LEATHER PRODUCTS-----	1,721	1,720	1	-----	-----	-----	-----		
3211 GLASS AND GLASS PRODUCTS-----	7,177	2,565	28	3,612	972	-----	-----		
3201 BUILDING CEMENT-----	166,238	84,055	1	4,558	76,824	-----	-----		
3251 STRUCTURAL CLAY PRODUCTS-----	6,859	3,303	29	3,101	426	-----	-----		
3271 LIMESTONE-----	19	-----	19	-----	-----	-----	-----		
3281 CUT STONE AND STONE PRODUCTS-----	2,505	615	1	1,309	580	-----	-----		
3291 MISC NONMETALLIC MINERAL PROD-----	89,173	1,101	1,133	68,001	18,298	-----	-----		
3312 SLAG-----	8,578	-----	-----	7,977	601	-----	-----		
3314 IRON AND STEEL PRIMARY FORMS-----	1,049	1,049	-----	-----	-----	-----	-----		
3315 IRON, STEEL SHAPES, EXC SHEET-----	42,104	29,774	19	1,453	10,858	-----	-----		
3316 IRON AND STEEL PLATES, SHEETS-----	15,025	-----	466	11,728	2,831	-----	-----		
3317 IRON AND STEEL PIPE AND TUBE-----	22,815	2,323	14	12,893	7,585	-----	-----		
3319 IRON AND STEEL PRODUCTS, NEC-----	2,208	2,196	12	-----	-----	-----	-----		

## PACIFIC OCEAN DIVISION

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HONOLULU HARBOR, OAHU, HAWAII--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		COASTWISE		DOMESTIC		LOCAL
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS	
3321 NONFERROUS METALS, NEC-----	6,127	3	-----	6,124	-----	-----	-----	
3322 COPPER ALLOYS, UNWORKED-----	319	274	45	-----	-----	-----	-----	
3323 LEAD AND ZINC, UNWORKED-----	37	85	-----	289	-----	-----	-----	
3324 ALUMINUM AND ALLOYS, UNWORKED-----	40	9	4	27	-----	-----	-----	
3411 FABRICATED METAL PRODUCTS-----	1,125,994	7,250	458	523,937	594,349	-----	-----	
3511 MACHINERY, EXCEPT ELECTRICAL-----	34,304	3,832	681	15,672	14,319	-----	-----	
3611 ELECTRICAL MACH AND EQUIP-----	14,495	4,260	1,776	7,149	1,310	-----	-----	
3711 MOTOR VEHICLES, PARTS, EQUIP-----	612,960	44,355	624	201,506	366,475	-----	-----	
3721 AIRCRAFT AND PARTS-----	143	6	3	84	50	-----	-----	
3751 SHIPS AND BOATS-----	11,284	701	67	3,002	7,514	-----	-----	
3791 MISCELLANEOUS TRANSPORTATION EQUIPMENT-----	77,734	-----	22	25,643	52,269	-----	-----	
3811 INSTR, TIME, PHOTO, OPT GOODS-----	980	954	26	-----	-----	-----	-----	
3911 MISCELLANEOUS MANUFACTURED PRODUCTS-----	40,364	5,004	78	20,547	14,735	-----	-----	
4011 IRON AND STEEL SCRAP-----	55,700	-----	44,024	3,416	8,260	-----	-----	
4012 NONFERROUS METAL SCRAP-----	7,373	-----	7,373	-----	-----	-----	-----	
4022 TEXTILE WASTE, SCRAP, SWEEP-----	21	-----	21	-----	-----	-----	-----	
4026 PAPER WASTE AND SCRAP-----	29,072	-----	29,002	-----	70	-----	-----	
4029 WASTE AND SCRAP, NEC-----	184,580	-----	-----	183,900	640	-----	-----	
4111 WATER-----	551	-----	-----	-----	311	-----	240	
4112 COMMODITIES, NEC-----	915,026	472	883	869,050	444,681	-----	-----	
4119 EMPTY CONTAINERS-----	21,228	-----	-----	2,453	18,775	-----	-----	

NAWILIWILI HARBOR, KAUAI, HAWAII

SECTION INCLUDED: PORT OF NAWILIWILI. CONTROLLING DEPTH: 41.0 FEET IN THE OUTER CHANNEL; 41.0 FEET IN THE INNER CHANNEL; 35.0 FEET IN THE HARBOR BASIN. PROJECT DEPTH: 40 FEET IN THE CHANNEL; 35 FEET IN THE HARBOR BASIN.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1977-----	557,798	70,063	1982-----	806,153	-----
1978-----	765,877	6,384	1983-----	1,008,699	-----
1979-----	757,899	-----	1984-----	944,770	-----
1980-----	785,212	-----	1985-----	933,477	-----
1981-----	906,595	-----	1986-----	745,396	-----

## FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		COASTWISE
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	
TOTAL-----	745,396	5,522	1	439,921	299,952	
0103 CORN-----	6,180	-----	-----	5,180	-----	
0105 RICE-----	629	-----	-----	629	-----	
0122 HAY AND FODDER-----	16	-----	-----	16	-----	
0131 FRESH FRUITS-----	76	-----	-----	63	13	
0141 FRESH AND FROZEN VEGETABLES-----	-----	-----	-----	4,659	-----	
0151 LIVE ANIMALS-----	5,835	-----	-----	949	4,886	
0161 ANIMALS AND PRODUCTS, NEC-----	13	-----	-----	13	-----	
0861 FOREST PRODUCTS, NEC-----	72	-----	-----	72	-----	
0912 SHELLFISH, EXCEPT PREPARED-----	50	-----	-----	50	-----	
1091 NONFERROUS ORES, CONCENT., NEC-----	39	-----	-----	39	-----	
1494 GYPSUM, CRUDE AND PLASTER-----	136	-----	-----	138	-----	
1911 ORDNANCE AND ACCESSORIES-----	14	-----	-----	6	8	
2011 MEAT, FRESH CHILLED, FROZEN-----	3,150	-----	-----	3,150	-----	
2015 ANIMAL BY-PRODUCTS, NEC-----	54	-----	-----	54	-----	
2021 DAIRY PRODUCTS, NEC-----	63	-----	-----	56	7	
2034 VEGETABLES AND PREP, NEC-----	7,607	-----	-----	4,631	2,776	
2039 PREP FRUIT AND VEG JUICE, NEC-----	3,017	-----	-----	36	2,981	
2041 WHEAT FLOUR AND SEMOLINA-----	44	-----	-----	44	-----	
2042 ANIMAL FEEDS-----	11,004	-----	-----	10,998	6	
2061 SUGAR-----	89,203	-----	-----	3	89,200	
2062 MOLASSES-----	46,434	-----	-----	-----	46,034	
2081 ALCOHOLIC BEVERAGES-----	6,984	-----	-----	6,984	-----	
2091 VEGETABLE OILS, MAR, SHORT-----	244	-----	-----	244	-----	
2094 GROCERIES-----	3,196	-----	-----	3,196	-----	
2099 MISCELLANEOUS FOOD PRODUCTS-----	27,151	-----	-----	23,911	3,240	
2211 BASIC TEXTILE PRODUCTS-----	16	-----	-----	16	-----	
2413 FUEL WOOD, CHARCOAL, WASTES-----	348	-----	-----	300	48	
2421 LUMBER-----	9,454	-----	-----	9,290	164	
2431 VENEER, PLYWOOD, WORKED WOOD-----	1,161	-----	-----	1,161	-----	
2491 WOOD MANUFACTURES, NEC-----	7,476	-----	-----	1,646	5,830	
2511 FURNITURE AND FIXTURES-----	3,566	-----	-----	3,171	395	
2621 STANDARD NEWSPRINT PAPER-----	100	-----	-----	100	-----	
2631 PAPER AND PAPERBOARD-----	1,158	-----	-----	1,099	59	
2691 PULP AND PAPER PRODUCTS, NEC-----	2,964	-----	-----	2,900	64	
2711 PRINTED MATTER-----	65	-----	-----	65	-----	
2810 SODIUM HYDROXIDE-----	777	-----	-----	777	-----	
2816 RADIOACTIVE MATERIALS, WASTES-----	15	-----	-----	-----	15	
2818 BULPHURIC ACID-----	40	-----	-----	40	-----	
2819 BASIC CHEMICALS AND PT. D, NEC-----	763	312	-----	848	3	
2821 PLASTIC MATERIALS-----	222	-----	-----	222	-----	
2841 SOAP-----	221	-----	-----	221	-----	

*Waterborne Commerce of the United States, 1986*

NAWILIWILI HARBOR, KAUAI, HAWAII--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC	
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS
2851 PAINTS-----	115	-----	-----	115	-----
2871 NITROGENOUS CHEM FERTILIZERS-----	3,859	2,731	-----	1,128	-----
2872 POTASSIC CHEM FERTILIZERS-----	2,477	2,477	-----	-----	-----
2876 INSECTICIDES, DISINFECTANTS-----	285	-----	-----	285	-----
2891 MISCELLANEOUS CHEMICAL PROD-----	3,934	-----	-----	3,810	124
2911 GASOLINE-----	91	-----	-----	91	-----
2912 JET FUEL-----	18,630	-----	-----	18,630	-----
2914 DISTILLATE FUEL OIL-----	6,682	-----	-----	6,682	-----
2916 LUBRICATING OILS AND GREASES-----	1,668	-----	-----	1,668	-----
2918 ASPHALT, TAR, AND PITCHES-----	561	-----	-----	561	-----
2921 LIQUEFIED GASES-----	1,779	-----	-----	1,779	-----
2951 ASPHALT BUILDING MATERIALS-----	6,277	-----	-----	6,277	-----
2991 PETROLEUM AND COAL PROD, NEC-----	153	-----	-----	153	-----
3011 RUBBER AND MISC PLASTIC PROD-----	600	-----	-----	600	-----
3211 GLASS AND GLASS PRODUCTS-----	3,028	-----	-----	2,881	147
3241 BUILDING CEMENT-----	179	-----	-----	175	3
3251 STRUCTURAL CLAY PRODUCTS-----	19,375	-----	-----	19,208	107
3281 CUT STONE AND STONE PRODUCTS-----	61	-----	-----	61	-----
3291 MISC NONMETALLIC MINERAL PROD-----	516	-----	-----	516	-----
3312 SLAG-----	4,288	-----	-----	4,288	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	22	-----	-----	22	-----
3316 IRON AND STEEL PLATES, SHEETS-----	3,946	-----	-----	3,725	221
3317 IRON AND STEEL PIPE AND TUBE-----	263	-----	-----	203	-----
3411 FABRICATED METAL PRODUCTS-----	2,302	-----	-----	2,302	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	210,919	-----	-----	109,872	101,247
3611 ELECTRICAL MACH AND EQUIP-----	1,026	-----	1	1,013	14
3721 AIRCRAFT AND PARTS-----	304	-----	-----	304	-----
3731 MOTOR VEHICLES, PARTS, EQUIP-----	97,070	2	-----	71,194	25,878
3731 SHIPS AND BOATS-----	11	-----	-----	10	1
3791 MISC TRANSPORTATION EQUIPMENT-----	2,150	-----	-----	1,723	427
3911 MISC MANUFACTURED PRODUCTS-----	17,572	-----	-----	9,893	7,679
4011 IRON AND STEEL SCRAP-----	1,545	-----	-----	1,268	277
4112 COMMODITIES, NEC-----	512	-----	-----	-----	512
4119 EMPTY CONTAINERS-----	86,869	-----	-----	79,961	6,908
	168	-----	-----	168	-----

## PACIFIC OCEAN DIVISION

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## OTHER HARBORS AND WATERWAYS

HARBOR OR WATERWAY	COMMODITY	TONS	TOTAL TON- MILES	PASSENGERS
PROJECT				
MANA HARBOR, MAUI, HAWAII-----	2918 ASPHALT, TAR, AND PITCHES-----	21	-----	-----
KAILUA HARBOR, OAHU, HAWAII-----	NO COMMERCE REPORTED			
KALAUPAPA HARBOR, MOLOKAI, HAWAII-----	2421 LUMBER----- 2491 WOOD MANUFACTURES, NEC----- 2511 FURNITURE AND FIXTURES----- 3011 RUBBER AND MISC PLASTIC PRUD----- 3315 IRON, STEEL SHAPES, EXC SHEET----- 3411 FABRICATED METAL PRODUCTS----- 3711 MOTOR VEHICLES, PARTS, EQUIP----- 3731 SHIPS AND BOATS----- 3791 MISC TRANSPORTATION EQUIPMENT----- 4112 COMMODITIES, NEC-----	52 20 7 2 3 306 502 11 42 624	-----	-----
	TOTAL-----	1,569	-----	-----
KAUNAKAKAI HARBOR, MOLOKAI, HAWAII-----	0122 HAY AND FORAGE----- 0131 FRESH FRUITS----- 0151 LIVE ANIMALS----- 1442 SAND, GRAVEL, CRUSHED ROCK----- 1911 DRIVANCE AND ACCESSORIES----- 2034 VEGETABLES AND PREP, NEC----- 2042 ANIMAL FEEDS----- 2099 MISCELLANEOUS FOOD PRODUCTS----- 2311 APPAREL----- 2414 TIMBER, POSTS, POLES, PILING----- 2421 LUMBER----- 2491 WOOD MANUFACTURES, NEC----- 2511 FURNITURE AND FIXTURES----- 2631 PAPER AND PAPERBOARD----- 2691 PULP AND PAPER PRODUCTS, NEC----- 2679 FERTILIZER AND MATERIALS, NEC----- 2691 MISCELLANEOUS CHEMICAL PROD----- 2911 GASOLINE----- 2912 JET FUEL----- 2914 DISTILLATE FUEL OIL----- 2918 ASPHALT, TAR, AND PITCHES----- 3211 RUBBER AND GLASS PRODUCTS----- 3241 BUILDING CEMENT----- 3291 MISC NONMETALLIC MINERAL PRUD----- 3312 SLAG----- 3315 IRON, STEEL SHAPES, EXC SHEET----- 3317 IRON AND STEEL PIPE AND TUBE----- 3411 FABRICATED METAL PRODUCTS----- 3511 MACHINERY, EXCEPT ELECTRICAL----- 3711 MOTOR VEHICLES, PARTS, EQUIP----- 3731 SHIPS AND BOATS----- 3791 MISC TRANSPORTATION EQUIPMENT----- 4011 IRON AND STEEL SCRAP----- 4112 COMMODITIES, NEC-----	1,478 39,684 12,540 4,495 6 11,745 1,861 5,092 3 1 1,174 3,446 741 2 44 362 5 3,413 749 3,402 571 397 6 593 3 2,000 113 349 100,250 1 27,827 824 2,642 385 20,121	-----	-----
	TOTAL-----	246,867	-----	-----
POR ALLEN HARBOR, KAUAI, HAWAII-----	2062 MOLASSES----- 2912 JET FUEL----- 2915 RESIDUAL FUEL OIL-----	8,046 1,782 1,937	-----	-----
	TOTAL-----	11,767	-----	-----
WAKE ISLAND HARBOR, WAKE ISLAND-----	2912 JET FUEL-----	1,782	-----	-----
HELLS HARBOR, MIDWAY ISLAND-----	2912 JET FUEL-----	5,346	-----	-----
NONPROJECT				
KAUHALAPAU HARBOR, LANAI, HAWAII-----	0131 FRESH FRUITS----- 0141 FRESH AND FROZEN VEGETABLES----- 0151 LIVE ANIMALS----- 1442 SAND, GRAVEL, CRUSHED ROCK----- 2421 LUMBER----- 2491 WOOD MANUFACTURES, NEC----- 2671 NITROGENOUS CHEM FERTILIZERS----- 2676 INSECTICIDES, DISINFECTANTS----- 2679 FERTILIZER AND MATERIALS, NEC----- 2914 DISTILLATE FUEL OIL----- 2918 ASPHALT, TAR, AND PITCHES----- 3411 FABRICATED METAL PRODUCTS----- 3511 MACHINERY, EXCEPT ELECTRICAL----- 3711 MOTOR VEHICLES, PARTS, EQUIP----- 3791 MISC TRANSPORTATION EQUIPMENT----- 4112 COMMODITIES, NEC----- 4119 EMPTY CONTAINERS-----	274,339 106 2 12,550 395 18,646 9 495 1,078 21 672 40 2,935 864 6 5,085 13,099	-----	69,282
	TOTAL-----	330,342	-----	69,282

# Waterborne Commerce of the United States, 1986

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## WALLA WALLA, WA, DISTRICT

COLUMBIA RIVER AND TRIBUTARIES ABOVE MCNARY LOCK AND DAM TO  
KENNEWICK, WASH.

SECTION INCLUDED: COLUMBIA RIVER AND TRIBUTARIES, MCNARY LOCK AND DAM TO KENNEWICK, WASH. CONTROLLING DEPTHS: 20 TO 92 FEET.  
PROJECT DEPTHS: 14 FEET.

### COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977-----	4,506,615	1982-----	6,675,148
1978-----	5,696,445	1983-----	6,610,246
1979-----	6,075,369	1984-----	6,789,785
1980-----	7,238,066	1985-----	5,255,471
1981-----	7,491,927	1986-----	5,789,534

\* PASSENGERS--6,213.

### FREIGHT TRAFFIC, 1986

#### DOMESTIC

(SHORT TONS)

COMMODITY	TOTAL	INTERNAL		THROUGH	
		INBOUND	OUTBOUND	UPBOUND	DOWNBOUND
TOTAL-----	5,789,534	938,712	1,006,218	4,029	666,634 3,174,141
0102 BARLEY AND RYE-----	329,438	-----	50,345	-----	279,093
0103 CORN-----	748	-----	748	-----	-----
0107 WHEAT-----	3,046,471	-----	729,319	-----	2,317,152
0111 SOYBEANS-----	631	-----	606	-----	25
0122 HAY AND FODDER-----	8,512	-----	4,535	-----	3,977
0129 FIELD CROPS, NEC-----	76,250	-----	8,079	19,359	46,792
0181 FRESH AND FROZEN VEGETABLES-----	10,875	114	1,458	-----	9,303
0181 ANIMAL AND PRODUCTS, NEC-----	6,290	-----	4,290	-----	-----
2015 ANIMAL BY-PRODUCTS, NEC-----	14,097	-----	14,097	-----	-----
2034 VEGETABLES AND PREP., NEC-----	10,945	-----	20	-----	10,925
2042 ANIMAL FEEDS-----	1,675	-----	1,585	90	-----
2062 MOLASSES-----	14,122	-----	-----	14,122	-----
2411 LOGS-----	29,263	-----	-----	-----	29,263
2413 FUEL WOOD, CHARCOAL, WASTES-----	15,633	550	-----	538	12,445
2414 TIMBER, POSTS, POLES, PILING-----	9,026	-----	-----	-----	9,026
2416 WOOD CHIPS, STAVES, HOLDINGS-----	407,057	-----	80,922	39,604	287,131
2421 LUMBER-----	857	-----	-----	-----	857
2431 VENEER, PLYWOOD, WORKED WOOD-----	88	-----	-----	-----	88
2611 PULP-----	61,995	-----	61,995	-----	-----
2631 PAPER AND PAPERBOARD-----	32,708	-----	81	9	32,618
2691 PULP AND PAPER PRODUCTS, NEC-----	13,165	-----	-----	-----	13,165
2819 BASIC CHEMICALS AND PROD., NEC-----	135,838	131,990	-----	3,840	-----
2871 NITROGENOUS CHEM FERTILIZERS-----	66,947	7,998	43,943	4,029	10,977
2876 INSECTICIDES, DISINFECTANTS-----	334	334	-----	-----	-----
2911 GASOLINE-----	601,797	268,902	2,092	-----	233,049 97,754
2912 JET FUEL-----	46,009	-----	1,927	-----	37,604 6,470
2914 DISTILLATE FUEL OIL-----	749,995	480,431	-----	255,526	14,038
2915 RESIDUAL FUEL OIL-----	84,733	41,520	-----	43,213	-----
2916 LUBRICATING OILS AND GREASES-----	4,896	4,896	-----	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	1,058	-----	33	1	1,024
4011 IRON AND STEEL SCRAP-----	75	75	-----	-----	-----
4119 EMPTY CONTAINERS-----	10,426	1,969	68	8,202	187
TOTAL TON-MILES,	224,396,154				

### SNAKE RIVER, OREG., WASH., AND IDAHO

SECTION INCLUDED: MOUTH OF SNAKE RIVER TO JOHNSON BAR LANDING. CONTROLLING DEPTHS: 14 FEET FROM MOUTH TO ICE HARBOR APPROACH CHANNEL; 14 FEET IN ICE HARBOR APPROACH CHANNEL; 14 FEET WITHIN ICE HARBOR POOL; 14 FEET IN LOWER MONUMENTAL APPROACH CHANNEL; 14 FEET WITHIN LOWER MONUMENTAL POOL; 14 FEET IN LITTLE GOOSE APPROACH CHANNEL; 14 FEET WITHIN LITTLE GOOSE POOL; 14 FEET IN LOWER GRANITE APPROACH CHANNEL; 14 FEET WITHIN LOWER GRANITE POOL; ABOUT 3.0 FEET FROM HEAD OF LOWER GRANITE POOL TO JOHNSON BAR LANDING. PROJECT DEPTHS: 14 FEET FROM MOUTH TO THE ICE HARBOR APPROACH CHANNEL; 14 FEET IN ICE HARBOR CHANNEL; 14 FEET WITHIN ICE HARBOR POOL; 14 FEET IN LOWER MONUMENTAL APPROACH CHANNEL; 14 FEET WITHIN LOWER MONUMENTAL POOL; 14 FEET IN LITTLE GOOSE APPROACH CHANNEL; 14 FEET IN LITTLE GOOSE CHANNEL; 14 FEET WITHIN LITTLE GOOSE POOL; 14 FEET IN LOWER GRANITE APPROACH CHANNEL; 14 FEET IN LOWER GRANITE CHANNEL; 14 FEET WITHIN LOWER GRANITE POOL; 2 FEET TO JOHNSON BAR LANDING.

### COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1977-----	2,911,249	-----	1982-----	5,065,328	121
1978-----	3,852,302	-----	1983-----	4,679,184	63
1979-----	4,356,735	-----	1984-----	4,852,015	4,364
1980-----	5,063,613	865	1985-----	3,918,814	5,730
1981-----	5,335,162	1,779	1986-----	5,042,623	7,106

## WALLA WALLA, WA, DISTRICT

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SNAKE RIVER, OREG., WASH., AND IDAHO--CONTINUED

FREIGHT TRAFFIC, 1986

## DOMESTIC

(SHORT TONS)

COMMODITY	TOTAL	INTERNAL				THROUGH	
		INBOUND	OUTBOUND	UPBOUND	DOWNBOUND	UPBOUND	DOWNBOUND
TOTAL-----	5,042,623	715,165	2,177,731	76,800	1,050,800	20,940	1,001,587
0102 BARLEY AND RYE-----	279,093	-----	178,709	-----	-----	-----	100,384
0107 WHEAT-----	2,317,152	-----	1,459,666	-----	-----	-----	657,466
0111 SOYBEANS-----	25	-----	25	-----	-----	-----	-----
0122 HAY AND FOODFRG-----	3,977	-----	3,977	-----	-----	-----	-----
0129 FIELD CROPS, NEC-----	69,759	27	992	-----	-----	20,940	47,800
0181 FRESH AND FROZEN VEGETABLES-----	9,303	-----	9,303	-----	-----	-----	-----
1442 SAND, GRAVEL, CRUSHED ROCK-----	1,126,400	-----	-----	76,800	1,050,000	-----	-----
2034 VEGETABLES AND PREP, NEC-----	10,925	-----	10,925	-----	-----	-----	-----
2042 ANIMAL FEEDS-----	90	90	-----	-----	-----	-----	-----
2062 MOLASSES-----	14,122	14,122	-----	-----	-----	-----	-----
2411 LOGS-----	29,263	-----	28,384	-----	-----	-----	879
2413 FUEL WOOD, CHARCOAL, WASTES-----	13,283	838	877	-----	-----	-----	11,568
2414 TIMBER, POSTS, POLES, PILING-----	11,076	1,650	6,643	-----	-----	-----	3,183
2416 WOOD CHIPS, STAVES, HOLDINGS-----	331,153	44,022	110,906	-----	-----	-----	176,225
2421 LUMBER-----	857	-----	857	-----	-----	-----	-----
2431 VENEER, PLYWOOD, WORKED WOOD-----	88	-----	88	-----	-----	-----	-----
2631 PAPER AND PAPERBOARD-----	32,627	0	29,536	-----	-----	-----	3,082
2691 PULP AND PAPER PRODUCTS, NEC-----	13,165	-----	13,165	-----	-----	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	3,840	3,840	-----	-----	-----	-----	-----
2871 NITROGENOUS CHEM FERTILIZERS-----	40,980	40,980	-----	-----	-----	-----	-----
2879 FERTILIZER AND MATERIALS, NEC-----	400	400	-----	-----	800	-----	-----
2911 GASOLINE-----	334,878	235,141	99,737	-----	-----	-----	-----
2912 JET FUEL-----	44,082	37,604	6,678	-----	-----	-----	-----
2914 DISTILLATE FUEL OIL-----	272,631	255,526	17,105	-----	-----	-----	-----
2915 RESIDUAL FUEL OIL-----	43,213	43,213	-----	-----	-----	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	1,025	1	24	-----	-----	-----	1,000
6029 WASTE AND SCRAP, NEC-----	900	900	-----	-----	-----	-----	-----
8118 WATERWAY IMPROVEMENT MAT-----	29,000	29,000	-----	-----	-----	-----	-----
8119 EMPTY CONTAINERS-----	8,516	8,202	318	-----	-----	-----	-----
TOTAL TON-MILES, 346,256,824.							

*Waterborne Commerce of the United States, 1986*  
**PORTLAND, OR, DISTRICT**

TOTAL WATERBORNE COMMERCE, COLUMBIA RIVER BASIN, OREG., WASH., AND IDAHO

CALENDAR YEAR 1986

(SHORT TONS)

LOCALITY	FOREIGN		DOMESTIC			TOTAL	PERCENT	THROUGH TRAFFIC*			
	IMPORTS	EXPORTS	COASTWISE		INTERNAL RECEIPTS AND SHIPMENTS						
			RECEIPTS	SHIPMENTS							
SNAKE RIVER, OREG., WASH., AND IDAHO	-----	-----	-----	-----	2,892,896	1,127,200	4,020,096	7.08 1,022,527			
COLUMBIA RIVER, NEVATCHEE TO KETTLE FALLS, WASH.	-----	-----	-----	-----	-----	-----	-----	-----			
COLUMBIA RIVER AND TRIBUTARIES ABOVE MCNARY LOCK AND DAM TO KENNEWICK, WASH	-----	-----	-----	-----	1,944,930	4,029	1,948,959	3.03 3,840,575			
COLUMBIA RIVER AND TRIBUTARIES ABOVE THE DALLES DAY, WASH., AND OREG., TO MCNARY LOCK AND DAM, OREG., AND WASH.	-----	-----	-----	-----	668,488	-----	668,488	1.18 5,744,453			
COLUMBIA RIVER BETWEEN VANCOUVER, WASH., AND THE DALLES, OREG.	-----	-----	-----	-----	1,947,175	886,503	2,833,678	4.99 6,300,690			
WILLAMETTE RIVER ABOVE PORTLAND AND YAMHILL RIVER, OREG.	12,409	-----	-----	-----	2,213,588	1,517,952	3,743,949	6.59 -----			
OREGON SLDUGH (NORTH PORTLAND HARBOR), OREG.	-----	-----	35,780	116,112	479,821	-----	631,713	1.11 -----			
COLUMBIA AND LOWER WILLAMETTE RIVERS BELCH VANCOUVER, WASH., AND PORTLAND, OREG.	3,745,761	20,741,258	2,876,408	534,832	10,296,501	2,728,852	40,925,612	72.03 1,389,658			
WULINGHAM CHANNEL, OREG.	-----	-----	-----	-----	1,385,980	3,938	1,389,918	2.45 -----			
LAKE RIVER, WASH.	-----	-----	-----	-----	33	-----	33	.01 -----			
LEWIS RIVER, WASH.	-----	-----	-----	-----	158,794	-----	158,794	.26 -----			
COALITZ RIVER, WASH.	-----	-----	-----	-----	420	-----	420	.01 -----			
CLATSASKIE RIVER, OREG.	-----	-----	-----	-----	2,044	-----	2,044	.01 -----			
WESTPORT SLUDGE, OREG.	-----	-----	-----	-----	-----	-----	-----	-----			
ELOKOMIN SLUDGE, WASH.	-----	-----	-----	-----	-----	-----	-----	-----			
SKANDRANA (STEAMBOAT) SLUDGE, WASH.	-----	-----	-----	-----	-----	-----	-----	-----			
SKAHOKAA CREEK, WASH.	-----	-----	-----	-----	-----	-----	-----	-----			
GRAYS RIVER, WASH.	-----	-----	-----	-----	-----	-----	-----	-----			
DEEP RIVER, WASH.	-----	-----	-----	-----	133,681	350	134,031	.24 -----			
YOUNGS BAY AND YOUNGS RIVER, OREG.	-----	-----	-----	-----	139,193	37,921	177,114	.31 -----			
SKIPANOV CHANNEL, OREG.	-----	-----	-----	-----	116,156	-----	116,156	.20 -----			
CHINOOK CHANNEL, WASH.	-----	-----	-----	-----	21,333	-----	21,333	.04 -----			
COLUMBIA RIVER AT BAKERS BAY, WASH.	-----	-----	-----	-----	24,835	-----	24,835	.04 -----			
TOTAL (UNADJUSTED)	3,758,170	20,741,258	2,914,188	650,944	22,425,868	6,306,745	56,797,173	18,297,903			
PERCENT (UNADJUSTED)	6.62	36.52	5.13	1.15	39.08	11.10	-----	100.00 -----			
NET VOLUME OF TONNAGE FOR THE BASIN	3,758,170	20,741,258	2,914,188	650,944	11,230,602	6,306,745	45,601,907	-----			
PERCENT (ADJUSTED)	8.24	45.48	6.39	1.43	28.63	13.83	-----	100.00 -----			

\* THROUGH TRAFFIC NOT CREDITED AS SUCH TO TOTAL TONNAGE FOR BASIN, BUT CREDITED TO PROJECTS OR RIVERS WHERE SHIPPED OR RECEIVED.

\*\* ADJUSTED TO NET VOLUME BY EXCLUDING ONE-HALF OF INTERNAL TRAFFIC MOVED BETWEEN THE SEPARATE WATERWAYS OF THE BASIN.

COLUMBIA RIVER ENTRANCE, OREG. AND WASH.

SECTION INCLUDED: COLUMBIA RIVER AT MOUTH, OREG. AND WASH. CONTROLLING DEPTHS: 47 FEET LEFT OUTSIDE, 45 FEET LEFT INSIDE, 43 FEET RIGHT INSIDE, AND 40 FEET RIGHT OUTSIDE, AT MEAN LOW WATER. AT CLATSOP SPIT, 44 FEET FOR LEFT QUARTER, 45 FEET CENTER OF CHANNEL, AND 42 FEET RIGHT QUARTER. PROJECT DEPTHS: 48 FEET OVER BAR.

COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	FOREIGN THROUGH		DOMESTIC THROUGH		TOTAL	YEAR	FOREIGN THROUGH		DOMESTIC THROUGH		TOTAL
	UPBOUND	DOWNBOUND	UPBOUND	DOWNBOUND			UPBOUND	DOWNBOUND	UPBOUND	DOWNBOUND	
1977-----	4,045,515	12,821,583	4,213,078	813,554	21,893,330	1982-----	3,050,799	18,648,610	3,770,605	507,124	25,977,136
1978-----	4,323,696	16,510,367	5,122,783	909,658	26,866,509	1983-----	3,655,059	20,695,740	3,513,978	1,941,579	29,806,356
1979-----	4,755,280	17,893,640	6,008,252	1,019,041	29,676,213	1984-----	3,957,792	24,515,241	3,486,755	1,459,300	33,421,088
1980-----	4,452,226	19,667,507	5,224,056	862,464	30,206,253	1985-----	3,939,639	21,312,885	2,656,424	659,655	29,568,603
1981-----	3,821,723	19,963,821	4,369,793	447,875	28,603,212	1986-----	3,758,170	20,741,258	2,932,355	655,703	28,087,486

COLUMBIA RIVER, MOUTH TO INTERNATIONAL BOUNDARY  
(CONSOLIDATED REPORT)

SECTION INCLUDED: MOUTH TO INTERNATIONAL BOUNDARY, A DISTANCE OF 745 MILES. CONTROLLING DEPTHS: 38 FEET OR BETTER BETWEEN MOUTH OF COLUMBIA RIVER AND MOUTH OF WILLAMETTE RIVER; 38 FEET TO LOWER TURNING BASIN, VANCOUVER, WASH.; OTHER CHANNEL DEPTHS RANGE FROM 15 TO 4 FEET. PROJECT DEPTHS: 55/88 FEET ACROSS ENTRANCE BAR; 40 FEET FROM MOUTH OF COLUMBIA RIVER TO MOUTH OF WILLAMETTE RIVER; 40 FEET FROM MOUTH OF WILLAMETTE RIVER TO VANCOUVER; OTHER PROJECT DEPTHS RANGE FROM 27 TO 7 FEET.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS	YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS
1977-----	31,627,507	6,914,260	38,541,767	62,606	1982-----	37,296,858	8,368,429	41,665,287	60,851
1978-----	37,872,172	5,852,629	43,724,801	91,601	1983-----	41,088,095	4,070,207	45,558,302	105,161
1979-----	41,189,227	5,869,843	47,059,070	117,301	1984-----	45,329,836	4,051,701	49,381,537	431,679
1980-----	42,924,434	6,254,550	49,178,984	81,303	1985-----	39,046,918	3,380,448	42,427,366	190,223
1981-----	40,995,167	4,870,819	45,865,986	81,647	1986-----	39,011,831	3,143,357	42,155,188	234,944

## PORTLAND, OR, DISTRICT

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COLUMBIA RIVER, MOUTH TO INTERNATIONAL BOUNDARY  
(CONSOLIDATED REPORT)--CONTINUED

FREIGHT TRAFFIC, 1986

OCEANGOING

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN			DOMESTIC COASTWISE				
		IMPORTS	EXPORTS	THROUGH		RECEIPTS	SHIPMENTS	THROUGH	
				UPBOUND	DOWNBOUND			UPBOUND	DOWNBOUND
TOTAL-----	28,064,560	1,481,613	9,170,564	2,276,557	11,570,694	138,013	151,208	2,776,175	499,736
0102 BARLEY AND RYE-----	911,356	-----	207,410	4	703,942	-----	-----	-----	-----
0103 CORN-----	2,650,504	-----	2,788,304	-----	62,200	-----	-----	-----	-----
0105 RICE-----	4,515	-----	-----	311	4,161	-----	-----	23	20
0106 SORGHUM GRAINS-----	309,691	-----	240,653	-----	69,038	-----	-----	-----	-----
0107 MEAT-----	8,907,501	-----	701,584	-----	8,205,917	-----	-----	-----	-----
0111 SOYBEANS-----	1,631	-----	-----	31	1,631	-----	-----	-----	-----
0119 OILSEEDS, NEC-----	1,045	-----	-----	-----	1,414	-----	-----	-----	-----
0121 TOBACCO, LEAF-----	29	-----	-----	-----	29	-----	-----	-----	-----
0122 HAY AND FORAGE-----	78	-----	-----	-----	-----	-----	-----	-----	78
0129 FIELD CROPS, NEC-----	25,423	55	1,184	818	23,366	-----	-----	-----	-----
0131 FRESH FRUITS-----	7,360	-----	-----	108	5,203	-----	1,547	502	-----
0132 BANANAS AND PLANTAINS-----	12	-----	-----	12	-----	-----	-----	12	-----
0133 COFFEE-----	306	213	-----	121	-----	-----	-----	-----	-----
0134 COCOA BEANS-----	5	-----	-----	-----	5	-----	-----	-----	-----
0141 FRESH AND FROZEN VEGETABLES-----	130,400	30	10,528	403	113,412	-----	-----	-----	14,047
0151 LIVE ANIMALS-----	680	-----	-----	-----	680	-----	-----	-----	-----
0161 ANIMALS AND PRODUCTS, NEC-----	4,375	740	39	212	3,384	-----	-----	-----	-----
0191 MISCELLANEOUS FARM PRODUCTS-----	1,130	-----	-----	980	150	-----	-----	-----	-----
0841 CRUDE RUBBER AND ALLIED GUMS-----	1,396	19	-----	1,377	-----	-----	-----	-----	-----
0861 FOREST PRODUCTS, NEC-----	986	86	-----	62	184	-----	76	578	-----
0911 FRESH FISH, EXCEPT SHELLFISH-----	4,160	-----	-----	342	3,818	-----	-----	14	102
0912 SHELLFISH, EXCEPT PREPARED-----	208	-----	-----	24	68	-----	-----	-----	-----
0931 MARINE SHELLS, UNMANUFACTURED-----	38	-----	-----	38	-----	-----	-----	-----	-----
1011 IRON ORE AND CONCENTRATES-----	11,755	-----	-----	-----	11,755	-----	-----	-----	-----
1021 COPPER ORE AND CONCENTRATES-----	39,283	-----	23,699	-----	15,584	-----	-----	-----	-----
1051 ALUMINUM ORES, CONCENTRATES-----	1,107,335	944,458	-----	162,897	-----	-----	-----	-----	-----
1091 NONFERROUS ORES, CONCENT., NEC-----	5,360	5,316	-----	44	-----	-----	-----	-----	-----
1311 CRUDE PETROLEUM-----	189,267	-----	-----	-----	-----	-----	-----	189,267	-----
1411 LIMESTONE-----	116,735	-----	116,735	-----	-----	-----	-----	-----	-----
1442 SAND, GRAVEL, CRUSHED ROCK-----	218,876	-----	-----	214,833	43	-----	-----	-----	-----
1451 CLAY-----	127,775	-----	10,954	-----	116,821	-----	-----	-----	-----
1491 SALT-----	573,471	283,615	-----	282,856	-----	-----	-----	7,000	-----
1494 GYPSUM, CRUDE AND PLASTERS-----	40	-----	-----	-----	40	-----	-----	-----	-----
1499 NONMETALLIC MINERALS, NEC-----	40,623	-----	5,007	337	30,122	-----	-----	5,157	-----
1911 ORDNANCE AND ACCESSORIES-----	129	-----	-----	128	1	-----	-----	-----	-----
2011 MEAT, FRESH, CHILLED, FROZEN-----	7,033	-----	-----	57	7,267	-----	1	108	-----
2012 MEAT AND PRODUCTS, NEC-----	100	43	-----	-----	57	-----	-----	-----	-----
2014 TALLOW, ANIMAL FATS AND OILS-----	8,006	-----	1,102	-----	6,904	-----	-----	-----	-----
2015 ANIMAL BY-PRODUCTS, NEC-----	32,360	-----	79	-----	32,261	-----	-----	-----	-----
2021 DAIRY PRODUCTS, NEC-----	435	-----	324	-----	49	-----	-----	62	-----
2022 DRIED MILK AND CREAM-----	1,629	-----	-----	-----	1,629	-----	-----	-----	-----
2031 FISH AND SHELLFISH, PREPARED-----	3,753	43	-----	1,071	1,337	1,302	-----	-----	-----
2034 VEGETABLES AND PREP, NEC-----	16,478	-----	612	2,028	12,229	-----	264	1,545	-----
2039 PREP FRUIT AND VEG JUICE, NEC-----	24,348	634	75	4,039	7,667	-----	11,657	276	-----
2041 WHEAT FLOUR AND SEMOLINA-----	27,818	-----	-----	-----	27,818	-----	-----	-----	-----
2042 ANIMAL FEEDS-----	262,271	-----	136,994	149	113,675	-----	-----	-----	11,453
2049 GRAIN MILL PRODUCTS, NEC-----	3,200	19	-----	277	2,904	-----	-----	777	-----
2061 SUGAR-----	777	-----	-----	-----	-----	-----	-----	18,198	-----
2062 MOLASSES-----	24,090	-----	-----	5,892	-----	-----	-----	7,538	-----
2081 ALCOHOLIC BEVERAGES-----	13,791	620	-----	5,266	367	-----	-----	37	-----
2091 VEGETABLE OILS, MARG, SHORT-----	97,131	1,184	-----	95,479	431	-----	-----	6	397
2094 GROCERIES-----	403	-----	-----	-----	-----	-----	-----	-----	-----
2095 ICE-----	37	37	-----	-----	-----	-----	-----	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	44,397	96	613	1,189	40,753	-----	24	1,722	-----
2111 TOBACCO MANUFACTURES-----	269	-----	2	-----	267	-----	-----	30	-----
2211 BASIC TEXTILE PRODUCTS-----	2,799	306	158	2,023	284	-----	-----	-----	-----
2311 APPAREL-----	1,080	28	-----	1,034	18	-----	-----	-----	-----
2411 LOGS-----	3,511,887	-----	3,095,113	184	416,007	-----	-----	583	-----
2413 FUEL WOOD, CHARCOAL, WASTES-----	1,714	-----	-----	-----	169	-----	6	1,539	-----
2414 TIMBER, POSTS, POLES, PILING-----	4,213	29	2,175	-----	1,302	-----	-----	707	-----
2416 WOOD CHIPS, STAVES, HOOLDINGS-----	531,189	-----	167,454	-----	363,735	-----	-----	-----	-----
2421 LUMBER-----	527,306	15,809	116,532	2,046	231,861	-----	71,549	89,509	-----
2431 VENEER, PLYWOOD, WORKED WOOD-----	112,367	25,250	9,623	6,384	48,932	-----	1,746	20,432	-----
2491 WOOD MANUFACTURES, NEC-----	55,259	2,337	1,905	1,175	35,923	-----	-----	14,419	-----
2511 FURNITURE AND FIXTURES-----	4,566	41	10	2,900	195	-----	626	798	-----
2611 PULP-----	90,898	4,118	22,131	-----	64,649	-----	-----	-----	-----
2621 STANDARD NEWSPRINT PAPER-----	202,330	79	176,408	3,678	21,144	-----	-----	1,021	-----
2631 PAPER AND PAPERBOARD-----	309,138	17,816	72,719	6,815	203,618	-----	-----	8,170	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	22,703	1,966	50	340	176	-----	-----	20,171	-----
2711 PRINTED MATTER-----	374	-----	2	350	22	-----	-----	-----	-----
2810 SODIUM HYDROXIDE-----	112,691	-----	-----	-----	-----	4,100	29,422	79,169	-----
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	5,924	13	5	2,870	1,031	-----	2,005	-----	-----
2812 DYES, PIGMENT, TANNING MATS-----	458	-----	-----	-----	11	-----	-----	447	-----
2813 ALCOMOLS-----	57,313	19,424	-----	20,208	-----	2,752	6,929	93	-----
2816 RADIOACTIVE MATERIALS, WASTES-----	158	-----	65	-----	-----	-----	-----	-----	-----
2817 BENZENE AND TOLUENE-----	40,784	34,682	-----	6,067	35	-----	-----	-----	-----
2818 SULPHURIC ACID-----	433	-----	-----	-----	-----	-----	433	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	1,226,212	309	934,058	12,605	162,026	-----	96,522	20,696	-----
2821 PLASTIC MATERIALS-----	4,079	102	37	2,185	1,544	-----	-----	1,011	-----
2822 SYNTHETIC RUBBER-----	58	-----	-----	-----	58	-----	-----	-----	-----
2823 SYNTHETIC (MAN-MADE) FIBERS-----	11	-----	-----	-----	11	-----	-----	-----	-----
2831 DRUGS-----	397	-----	1	291	96	-----	-----	9	-----
2841 SOAP-----	1,192	-----	13	141	1,038	-----	-----	-----	-----
2851 PAINTS-----	851	22	9	677	87	-----	33	23	-----
2861 GUM AND WOOD CHEMICALS-----	5,247	-----	-----	-----	247	-----	5,000	-----	-----
2871 NITROGENOUS CHEM FERTILIZERS-----	162,926	6,181	-----	7,036	118	-----	137,800	11,711	-----
2873 PHOSPHATIC CHEM FERTILIZERS-----	2,983	-----	-----	-----	-----	2,983	-----	100	-----
2876 INSECTICIDES, DISINFECTANTS-----	127	-----	8	23	-----	-----	-----	-----	-----
2879 FERTILIZER AND MATERIALS, NEC-----	1,944	-----	-----	60	-----	-----	1,684	-----	-----

## Waterborne Commerce of the United States, 1986

COLUMBIA RIVER, MOUTH TO INTERNATIONAL BOUNDARY  
(CONSOLIDATED REPORT)--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

OCEANGOING--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN				DOMESTIC COASTWISE			
		IMPORTS	EXPORTS	THROUGH		RECEIPTS	SHIPMENTS	THROUGH	
				UPBOUND	DOWNBOUND			UPBOUND	DOWNBOUND
2891 MISCELLANEOUS CHEMICAL PROD---	25,256	59	5	201	981	968	-----	7,198	15,044
2911 GASOLINE-----	587,959	10,993	-----	142,013	-----	16,007	1,650	593,443	21,083
2912 JET FUEL-----	113,481	-----	-----	10,440	-----	-----	-----	94,167	8,874
2914 DISTILLATE FUEL OIL-----	666,480	-----	-----	9,643	-----	-----	1,678	626,661	30,478
2915 RESIDUAL FUEL OIL-----	859,297	-----	-----	284	-----	94,518	-----	773,862	26,633
2916 LUBRICATING OILS AND GREASES---	150,330	-----	9	10	55	1,616	-----	148,640	-----
2917 NAPHTHA, PETROLEUM SOLVENTS---	6,369	-----	-----	-----	-----	-----	-----	6,369	-----
2918 ASPHALT, TAR, AND PITCHES-----	129,753	8,269	-----	93,668	-----	-----	-----	17,486	10,330
2920 COKE, PETROLEUM COKE-----	442,225	-----	413,950	-----	28,275	-----	-----	-----	-----
2921 LIQUEFIED GASES-----	51	-----	-----	-----	31	-----	-----	-----	-----
2951 ASPHALT BUILDING MATERIALS-----	1,746	-----	-----	-----	27	-----	-----	-----	1,719
2991 PETROLEUM AND COAL PROD, NEC---	287,623	-----	-----	2	40	16,800	58,457	212,515	9
3011 RUBBER AND MISC PLASTIC PROD---	29,988	228	19	27,928	685	-----	-----	37	1,091
3111 LEATHER AND LEATHER PRODUCTS---	3,876	15	3	3,230	628	-----	-----	-----	-----
3211 GLASS AND GLASS PRODUCTS-----	2,084	19	56	1,891	98	-----	-----	-----	-----
3241 BUILDING CEMENT-----	83,932	13,779	-----	70,213	-----	-----	-----	-----	-----
3251 STRUCTURAL CLAY PRODUCTS-----	1,996	-----	5	1,820	94	-----	-----	-----	77
3271 LIME-----	19	-----	-----	-----	-----	-----	-----	-----	19
3281 CUT STONE AND STONE PRODUCTS---	920	-----	-----	920	-----	-----	-----	-----	-----
3291 MISC NONMETALLIC MINERAL PROD--	12,055	195	-----	1,135	611	-----	-----	-----	10,114
3312 SLAG-----	2,495	-----	-----	-----	-----	-----	-----	-----	2,495
3314 IRON AND STEEL PRIMARY FORMS---	31,376	-----	-----	31,364	12	-----	-----	-----	-----
3315 IRON, STEEL SHAPES, EXC SHEET	208,601	27,310	1	180,052	1	-----	-----	-----	1,237
3316 IRON AND STEEL PLATES, SHEETS--	8,139	-----	-----	6,491	319	-----	-----	-----	1,329
3317 IRON AND STEEL PIPE AND TUBE--	87,654	20,757	-----	64,602	107	-----	-----	-----	2,108
3318 FERROALLOYS-----	10,277	2,807	-----	7,470	-----	-----	-----	-----	-----
3319 IRON AND STEEL PRODUCTS, NEC--	12,909	233	-----	12,519	157	-----	-----	-----	-----
3321 NONFERROUS METALS, NEC-----	1,935	569	-----	220	1	-----	-----	-----	1,145
3322 COPPER ALLOYS, UNWORKED-----	601	40	-----	293	268	-----	-----	-----	-----
3323 LEAD AND ZINC, UNWORKED-----	3,057	339	-----	2,718	-----	-----	-----	-----	-----
3324 ALUMINUM AND ALLOYS, UNWORKED--	11,913	9,922	5	271	1,715	-----	-----	-----	-----
3411 FABRICATED METAL PRODUCTS-----	97,899	8,476	299	77,944	2,053	-----	-----	22	9,103
3511 MACHINERY, EXCEPT ELECTRICAL--	58,196	550	1,813	33,424	4,035	-----	2,665	157	15,548
3611 ELECTRICAL MACH AND EQUIP--	15,750	480	86	12,647	1,565	-----	-----	-----	952
3711 MOTOR VEHICLES, PARTS, EQUIP--	500,258	10,253	45	485,618	1,225	-----	14	994	2,089
3721 AIRCRAFT AND PARTS-----	67	1	1	56	6	-----	-----	-----	3
3731 SHIPS AND BOATS-----	605	286	-----	259	32	0	-----	2	18
3791 MISC TRANSPORTATION EQUIPMENT--	1,153	-----	-----	935	61	-----	-----	-----	157
3811 INSTR, TIME, PHOTO, OPT GOODS--	1,320	3	31	1,105	129	-----	-----	-----	-----
3911 MISC MANUFACTURED PRODUCTS--	5,861	223	51	42,264	493	-----	-----	69	761
4011 IRON AND STEEL SCRAP-----	246,664	-----	64	-----	246,343	-----	-----	277	-----
4012 NONFERROUS METAL SCRAP-----	51,176	-----	23,105	-----	28,071	-----	-----	-----	-----
4022 TEXTILE WASTE, SCRAP, SLEEP-----	109	-----	10	-----	99	-----	-----	-----	-----
4024 PAPER WASTE AND SCRAP-----	62,700	-----	589	-----	62,123	-----	-----	-----	-----
4029 WASTE AND SCRAP, NEC-----	450	-----	-----	-----	-----	-----	450	-----	-----
4112 COMMODITIES, NEC-----	24,483	123	3,303	1,276	5,852	364	232	660	12,593
4119 EMPTY CONTAINERS-----	163	-----	9	-----	-----	-----	-----	163	-----
9999 DEPARTMENT OF DEFENSE AND SCI--	28	-----	-----	-----	19	-----	-----	-----	-----

TON-MILES, OCEANGOING, 2,653,032,493.

COMMODITY	TOTAL	INTERNAL				THROUGH	
		INBOUND	OUTBOUND	UPBOUND	DOWNBOUND		
					UPBOUND	DOWNBOUND	
TOTAL-----	14,090,628	4,077,581	2,573,022	1,559,983	2,553,638	1,368,309	1,958,095
0102 BARLEY AND RYE-----	369,981	61,636	78,748	-----	16,140	-----	217,457
0103 CORN-----	6,172	-----	3,511	-----	2,661	-----	-----
0107 WHEAT-----	3,446,818	1,018,617	594,656	2,997	520,069	-----	1,310,479
0111 SOYBEANS-----	631	-----	606	-----	-----	-----	25
0122 HAY AND FODDER-----	21,724	-----	17,747	-----	-----	-----	3,977
0129 FIELD CROPS, NEC-----	76,498	868	8,079	-----	-----	19,527	48,024
0141 FRESH AND FROZEN VEGETABLES-----	14,155	2,379	4,738	-----	-----	-----	7,038
0161 ANIMALS AND PRODUCTS, NEC-----	4,290	-----	4,290	-----	-----	-----	-----
0911 FRESH FISH, EXCEPT SHELLFISH-----	25,502	18,151	-----	-----	-----	7,351	-----
0912 SHELLFISH, EXCEPT PREPARED-----	9,833	6,543	-----	-----	-----	3,270	-----
1411 LIMESTONE-----	255,072	-----	245,072	-----	-----	-----	10,000
1402 SAND, GRAVEL, CRUSHED ROCK-----	908,732	89,612	101,876	600	9,650	577,586	129,408
1451 CLAY-----	5,925	5,925	-----	-----	-----	-----	-----
2015 ANIMAL BY-PRODUCTS, NEC-----	16,149	-----	14,149	-----	-----	-----	-----
2034 VEGETABLES AND PREP, NEC-----	10,945	-----	20	-----	-----	-----	-10,925
2042 ANIMAL FEEDS-----	1,765	-----	1,675	90	-----	-----	-----
2049 GRAIN MILL PRODUCTS, NEC-----	6,216	5,024	394	-----	-----	-----	-----
2062 MOLASSES-----	10,485	-----	-----	-----	-----	14,122	4,363
2411 LOGS-----	29,763	24,983	-----	500	-----	-----	4,200
2412 RAFTED LOGS-----	3,143,357	406,593	390,421	1,409,393	791,839	143,352	1,759
2413 FUEL WOOD, CHARCOAL, WASTES-----	97,534	37,446	638	550	58,700	-----	-----
2414 TIMBER, POSTS, POLES, PILING-----	12,176	-----	500	200	1,650	-----	9,826
2416 WOOD CHIPS, STAVES, HOLDINGS-----	1,895,901	706,960	42,395	70,597	1,078,290	-----	1,659
2421 LUMBER-----	29,039	286	4,818	152	1,832	21,094	857
2431 VENEER, PLYWOOD, WORKED WOOD-----	66	-----	-----	-----	-----	-----	66
2491 WOOD MANUFACTURES, NEC-----	5,370	282	6,815	149	132	-----	-----
2493 PULP-----	471,958	374,447	92,692	1,019	3,800	-----	-----
2631 PAPER AND PAPERBOARD-----	32,700	-----	61	-----	-----	9	32,616
2691 PULP AND PAPER PRODUCTS, NEC-----	905,732	39,988	810,575	29,801	3,761	442	13,165

**PORTLAND, OR, DISTRICT**

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**COLUMBIA RIVER, MOUTH TO INTERNATIONAL BOUNDARY  
(CONSOLIDATED REPORT)--CONTINUED**

**FREIGHT TRAFFIC, 1986--CONTINUED**

**INTERNAL--CONTINUED**

(SHORT TONS)

COMMODITY	TOTAL	INBOUND	OUTBOUND	UPBOUND	DOWNBOUND	THROUGH UPBOUND	DOWNBOUND
2810 SODIUM HYDROXIDE-----	9,800	-----	9,800	-----	-----	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	135,838	131,998	3,840	-----	-----	-----	-----
2871 NITROGENOUS CHEM FERTILIZERS-----	86,115	-----	38,462	23,231	21,704	2,518	-----
2876 INSECTICIDES, DISINFECTANTS-----	334	334	-----	-----	-----	-----	-----
2894 MISCELLANEOUS CHEMICAL PROD-----	150	-----	150	-----	-----	-----	-----
2911 GASOLINE-----	655,006	262,499	47,891	-----	26,997	219,865	97,754
2912 JET FUEL-----	46,009	-----	1,927	-----	-----	37,604	6,478
2914 DISTILLATE FUEL OIL-----	792,094	508,939	26,268	-----	6,944	235,885	14,036
2915 RESIDUAL FUEL OIL-----	449,427	348,280	1,591	6,545	-----	77,537	15,470
2916 LUBRICATING OILS AND GREASES-----	9,173	9,159	-----	-----	-----	14	-----
2991 PETROLEUM AND COAL PROD, NEC-----	7,792	7,792	-----	-----	-----	-----	-----
3201 BUILDING CEMENT-----	4,000	-----	4,000	-----	-----	-----	-----
3291 MISC NONMETALLIC MINERAL PROD-----	10,225	262	9,067	344	532	-----	-----
3411 FABRICATED METAL PRODUCTS-----	3,400	-----	-----	-----	3,400	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	3,250	2,800	333	-----	100	1	24
4011 IRON AND STEEL SCRAP-----	75	-----	75	-----	-----	-----	-----
4029 WASTE AND SCRAP, NEC-----	44,228	1,103	2,750	13,625	6,400	-----	16,350
4118 WATERWAY IMPROVEMENT MAT-----	1,027	-----	-----	190	837	-----	-----
4119 EMPTY CONTAINERS-----	12,108	3,831	152	-----	-----	8,132	33

TON-MILES, INTERNAL, 1,406,002,592.

TONS, ALL TRAFFIC, 42,155,188.  
TON-MILES, ALL TRAFFIC, 4,339,035,085.

**COLUMBIA AND LOWER WILLAMETTE RIVERS BELOW  
VANCOUVER, WASH., AND PORTLAND, OREG.**

SECTION INCLUDED: COLUMBIA RIVER FROM MOUTH TO THE MOUTH OF WILLAMETTE RIVER; WILLAMETTE RIVER FROM MOUTH TO BROADWAY BRIDGE AT PORTLAND, OREG.; A DISTANCE OF 113 MILES; COLUMBIA RIVER FROM MOUTH OF WILLAMETTE RIVER TO INTERSTATE BRIDGE, VANCOUVER, WASH., A DISTANCE OF 5 MILES; CONTROLLING DEPTHS: MOUTH OF COLUMBIA RIVER TO MOUTH OF WILLAMETTE AND UP THE WILLAMETTE TO BROADWAY BRIDGE IN PORTLAND, 30 FEET; IN THE REACH OF COLUMBIA RIVER FROM THE MOUTH OF WILLAMETTE RIVER TO THE LOWER TURNING BASIN AT VANCOUVER, WASH., 30 FEET, PROJECT DEPTH: 40 FEET IN MAIN CHANNEL FROM MOUTH OF COLUMBIA RIVER TO BROADWAY BRIDGE AT PORTLAND, OREG.; 40 FEET IN COLUMBIA RIVER FROM MOUTH OF WILLAMETTE RIVER TO RAILROAD BRIDGE, VANCOUVER, WASH.; 35 FEET FROM RAILROAD BRIDGE TO INTERSTATE BRIDGE, VANCOUVER, WASH.

**COMPARATIVE STATEMENT OF TRAFFIC**

YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS	YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS
1977-----	33,426,301	6,063,007	39,489,308	36,810	1982-----	37,515,291	3,908,164	41,423,455	24,394
1978-----	39,962,712	5,091,544	45,054,261	40,078	1983-----	42,037,361	3,544,210	45,581,571	35,104
1979-----	32,124,171	5,264,395	47,388,566	69,075	1984-----	45,901,362	3,489,124	49,390,486	443,056
1980-----	43,251,649	5,694,866	48,946,515	49,531	1985-----	39,516,176	3,087,380	42,603,556	108,888
1981-----	41,770,923	6,136,724	48,916,647	41,246	1986-----	39,583,151	2,732,119	42,315,270	134,824

**FREIGHT TRAFFIC, 1986**

**OCEANOLOUD**

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN			DOMESTIC COASTWISE		
		IMPORTS	EXPORTS	THROUGH UPBOUND	RECEIPTS	SHIPMENTS	THROUGH UPBOUND
							DOWNBOUND
TOTAL-----	20,064,560	3,745,701	20,741,258	12,409	2,878,408	534,832	35,780
0102 BARLEY AND RYE-----	911,356	4	911,352	-----	-----	-----	-----
0103 CORN-----	2,050,504	-----	2,050,504	-----	-----	-----	-----
0105 RICE-----	4,515	311	4,161	-----	-----	-----	23
0106 BORCHUM GRAINS-----	309,691	-----	309,691	-----	-----	-----	20
0107 WHEAT-----	8,007,501	-----	8,007,501	-----	-----	-----	-----
0111 SOYBEANS-----	1,631	-----	1,631	-----	-----	-----	-----
0119 OILSEEDS, NEC-----	1,445	-----	1,445	-----	-----	-----	-----
0121 TOBACCO, LEAF-----	29	-----	29	-----	-----	-----	-----
0122 HAY AND FODDER-----	78	-----	78	-----	-----	-----	-----
0129 FIELD CROPS, NEC-----	25,423	873	24,550	-----	-----	-----	-----
0131 FRESH FRUITS-----	7,360	108	5,203	-----	-----	1,547	502
0132 BANANAS AND PLANTAINS-----	12	12	-----	-----	-----	12	-----
0133 COFFEE-----	346	334	5	-----	-----	-----	-----
0134 COCOA BEANS-----	5	-----	5	-----	-----	-----	-----
0141 FRESH AND FROZEN VEGETABLES-----	138,000	413	123,940	-----	-----	-----	14,047
0151 LIVE ANIMALS-----	680	-----	680	-----	-----	-----	-----
0161 ANIMALS AND PRODUCTS, NEC-----	4,375	932	3,423	-----	-----	-----	-----
0191 MISCELLANEOUS FARM PRODUCTS-----	1,130	980	150	-----	-----	-----	-----
0801 CRUDE RUBBER AND ALLIED GUMS-----	1,396	1,396	-----	-----	-----	-----	-----
0861 FOREST PRODUCTS, NEC-----	986	140	184	-----	-----	76	578
0911 FRESH FISH, EXCEPT SHELLFISH-----	4,160	342	3,818	-----	-----	-----	-----
0912 SHELLFISH, EXCEPT PREPARED-----	208	24	68	-----	-----	14	102
0931 MARINE SHELLS, UNMANUFACTURED-----	38	38	-----	-----	-----	-----	-----
1011 IRON ORE AND CONCENTRATES-----	11,755	-----	11,755	-----	-----	-----	-----
1021 COPPER ORE AND CONCENTRATES-----	39,283	-----	39,283	-----	-----	-----	-----
1051 ALUMINUM ORES, CONCENTRATES-----	1,107,335	1,107,335	-----	-----	-----	-----	-----
1091 NONFERROUS ORES, CONCENT, NEC-----	5,360	5,360	-----	-----	-----	-----	-----

## Waterborne Commerce of the United States, 1986

COLUMBIA AND LOWER WILLAMETTE RIVERS BELOW  
VANCOUVER, WASH., AND PORTLAND, OREG.--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

OCEANGOING--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN			DOMESTIC COASTWISE		
		IMPORTS	EXPORTS	THROUGH UPBOUND	RECEIPTS	SHIPMENTS	THROUGH
							UPBOUND
1311 CRUDE PETROLEUM	189,267				189,267		
1411 LIMESTONE	116,735	110,391	6,344				
1442 SAND, GRAVEL, CRUSHED ROCK	218,876	217,761	43	5,065			
1451 CLAY	127,775		127,775				
1491 SALT	573,471	566,471				7,000	
1499 GYPSUM, CRUDE AND PLASTERS	40		40				
1499 NONMETALLIC MINERALS, NEC	40,623	337	35,129			4,580	577
1911 ORDNANCE AND ACCESSORIES	129	128	1				
2011 MEAT, FRESH, CHILLED, FROZEN	7,433	57	7,267				
2012 MEAT AND PRODUCTS, NEC	100	45	57				
2014 TALLOW, ANIMAL FATS AND OILS	8,06		8,006				
2015 ANIMAL BY-PRODUCTS, NEC	32,360		32,360				
2021 DAIRY PRODUCTS, NEC	435	324	49				62
2022 DRIED MILK AND CREAM	1,029		1,029				
2031 FISH AND SHELLFISH, PREPARED	3,753	1,110	1,337		1,302		
2034 VEGETABLES AND PREP, NEC	16,076	2,026	12,641				264
2039 PREP FRUIT AND VEG JUICE, NEC	24,348	4,673	7,742				11,057
2041 WHEAT FLOUR AND SEMOLINA	27,618		27,618				276
2042 ANIMAL FEEDS	262,271	149	250,669			1,204	
2049 GRAIN MILL PRODUCTS, NEC	3,200	296	2,904				
2061 SUGAR	777						777
2062 MOLASSES	24,090	5,892					18,198
2081 ALCOHOLIC BEVERAGES	13,791	5,886	367			4,498	3,040
2091 VEGETABLE OILS, MARG, SHORT	97,131	96,663	431				37
2094 GROCERIES	403						397
2095 ICE	37	37					
2099 MISCELLANEOUS FOOD PRODUCTS	44,397	1,285	41,366			. 775	24
2111 TOBACCO MANUFACTURES	269		269				
2211 BASIC TEXTILE PRODUCTS	2,799	2,331	438			30	
2311 APPAREL	1,080	1,062	18				
2411 LOGS	3,511,687	180	3,511,120			583	
2413 FUEL WOOD, CHARCOAL, WASTES	1,714		169				
2414 TIMBER, POSTS, POLES, PILING	4,213	29	3,477			707	
2416 WOOD CHIPS, STAVES, HOLDINGS	531,189		531,189				
2421 LUMBER	527,306	17,855	348,393			139,310	21,748
2431 VENEER, PLYWOOD, WORKED WOOD	112,367	31,638	58,555			15,928	6,250
2671 WOOD MANUFACTURES, NEC	53,259	3,512	37,328			12,400	2,019
2511 FURNITURE AND FIXTURES	4,566	2,941	205			450	384
2611 PULP	90,498	4,118	86,780				
2621 STANDARD NEWSPRINT PAPER	202,330	3,757	197,552			970	51
2631 PAPER AND PAPERBOARD	309,138	24,631	276,337			1,499	6,671
2691 PULP AND PAPER PRODUCTS, NEC	22,703	2,306	226			12,448	7,723
2711 PRINTED MATTER	374	350	24				
2810 SOJUUM HYDROXIDE	112,691				29,422	83,269	
2811 CRUDE TAR, OIL, GAS PRODUCTS	5,924	2,883	1,036		2,005		
2812 DYES, PIGMENT, TANNING MATS	458		11			399	48
2813 ALCOHOLS	57,313	47,632			2,752	6,929	
2816 RADIOACTIVE MATERIALS, WASTES	158	65				93	
2817 BENZENE AND TOLUENE	40,784	40,749	35				
2818 SULPHURIC ACID	433					433	
2819 BASIC CHEMICALS AND PROD, NEC	1,226,212	12,914	1,096,080		96,480	18,082	42
2821 PLASTIC MATERIALS	4,879	2,287	1,581				1,011
2822 SYNTHETIC RUBBER	56		58				
2823 SYNTHETIC (MAN-MADE) FIBERS	11		11				
2831 DRUGS	397	291	97				9
2841 SOAP	1,192	141	1,051				
2851 PAINTS	851	699	96				33
2861 GUM AND WOOD CHEMICALS	5,247		287		5,000		23
2871 NITROGENOUS CHEM FERTILIZERS	162,926	13,217	118		137,880	5,412	6,299
2873 PHOSPHATIC CHEM FERTILIZERS	2,983					2,983	
2876 INSECTICIDES, DISINFECTANTS	127		27				100
2879 FERTILIZER AND MATERIALS, NEC	1,944	60				1,738	146
2891 MISCELLANEOUS CHEMICAL PROD	25,256	260	986			8,166	
2911 GASOLINE	507,969	153,006				411,450	23,533
2912 JET FUEL	113,481	10,440				94,167	8,874
2914 DISTILLATE FUEL OIL	668,460	9,643				628,339	30,478
2915 RESIDUAL FUEL OIL	695,297	284				668,380	26,633
2916 LUBRICATING OILS AND GREASES	150,330	10	64			150,256	
2917 NAPHTHA, PETROLEUM SOLVENTS	6,369					6,369	
2918 ASPHALT, TAR, AND PITCHES	129,753	101,937				17,486	9,245
2920 COKE, PETROLEUM COKE	442,225		442,225				1,085
2921 LIQUEFIED GASES	31		31				
2951 ASPHALT BUILDING MATERIALS	1,786		27			1,369	350
2991 PETROLEUM AND COAL PROD, NEC	287,823	2	40		229,315	58,457	9
3011 RUBBER AND MISC PLASTIC PROD	29,988	28,156	704			975	116
3111 LEATHER AND LEATHER PRODUCTS	3,876	3,245	631				
3211 GLASS AND GLASS PRODUCTS	2,064	1,910	154				
3241 BUILDING CEMENT	83,992	83,992					
3251 STRUCTURAL CLAY PRODUCTS	1,996	1,820	99				77
3271 LIME	19						19
3281 CUT STONE AND STONE PRODUCTS	920	920					
3291 MISC NONMETALLIC MINERAL PROD	12,055	1,330	611			5,786	4,328
3312 SLAG	2,095					93	2,402
3314 IRON AND STEEL PRIMARY FORMS	31,376	31,364	12				
3315 IRON, STEEL SHAPES, EXC SHEET	208,601	207,362	2			1,128	109
3316 IRON AND STEEL PLATES, SHEETS	8,139	6,491	319				1,329
3317 IRON AND STEEL PIPE AND TUBE	67,654	65,359	107			205	1,983
3318 FERROALLOYS	10,277	10,277					
3319 IRON AND STEEL PRODUCTS, NEC	12,909	12,752	157				
3321 NONFERROUS METALS, NEC	1,935	789	1			1,145	
3322 COPPER ALLOYS, UNWORKED	601	333	268				

## PORTLAND, OR, DISTRICT

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COLUMBIA AND LOWER WILLAMETTE RIVERS BELOW  
VANCOUVER, WASH., AND PORTLAND, OREG.--CONTINUED

FREIGHT TRAFFIC, 1968--CONTINUED

## OCEANGOING--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN			DOMESTIC COASTWISE			
		IMPORTS	EXPORTS	THROUGH UPBOUND	RECEIPTS	SHIPMENTS	THROUGH UPBOUND	DOWNBOUND
3323 LEAD AND ZINC, UNWORKED-----	3,057	3,057	-----	-----	-----	-----	-----	-----
3324 ALUMINUM AND ALLOYS, UNWORKED-----	11,913	10,193	1,720	-----	-----	-----	22	5,992
3411 FABRICATED METAL PRODUCTS-----	97,089	66,622	2,352	-----	3,111	22	620	631
3511 MACHINERY, EXCEPT ELECTRICAL-----	50,196	33,970	5,048	-----	17,593	157	620	3
3611 ELECTRICAL MACH AND EQUIP-----	15,750	13,127	1,671	-----	321	629	994	1,674
3711 MOTOR VEHICLES, PARTS, EQUIP-----	500,256	495,671	1,200	-----	-----	-----	-----	-----
3721 AIRCRAFT AND PARTS-----	67	57	7	-----	-----	-----	-----	10
3731 SHIPS AND BOATS-----	605	545	32	-----	8	8	2	1
3791 MISC TRANSPORTATION EQUIPMENT-----	1,153	935	61	-----	156	-----	-----	-----
3811 INSTR, TIME, PHOTO, OPT GOODS-----	1,328	1,186	140	-----	-----	-----	-----	-----
3911 MISC MANUFACTURED PRODUCTS-----	5,861	6,887	544	-----	-----	69	761	277
4011 IRON AND STEEL SCRAP-----	248,684	248,607	-----	-----	-----	-----	-----	-----
4012 NONFERROUS METAL SCRAP-----	51,176	51,176	-----	-----	-----	-----	-----	-----
4022 TEXTILE WASTE, SCRAP, SHEEP-----	109	109	-----	-----	-----	-----	-----	-----
4024 PAPER WASTE AND SCRAP-----	62,708	62,708	-----	-----	-----	-----	-----	-----
4029 WASTE AND SCRAP, NEC-----	450	-----	-----	-----	450	-----	-----	-----
4112 COMMODITIES, NEC-----	26,443	1,399	9,195	-----	368	7,294	660	5,531
4119 EMPTY CONTAINERS-----	163	-----	-----	-----	-----	163	-----	-----
9999 DEPARTMENT OF DEFENSE AND SCI-----	28	-----	28	-----	-----	-----	-----	-----
TON-MILES, OCEANGOING, 2,653,032,493.								

## INTERNAL

(SHORT TONS)

COMMODITY	TOTAL	INBOUND	OUTBOUND	UPBOUND	DOWNBOUND	THROUGH	
						UPBOUND	DOWNBOUND
TOTAL-----	14,250,710	8,070,652	2,205,649	1,789,781	939,071	821,106	404,251
0102 BARLEY AND RYE-----	369,981	369,981	-----	-----	-----	-----	-----
0103 CORN-----	6,172	5,224	-----	-----	-----	-----	748
0107 WHEAT-----	3,052,143	3,427,370	-----	18,009	5,864	-----	-----
0111 SOYBEANS-----	631	-----	-----	-----	-----	631	-----
0122 HAY AND FODDER-----	21,724	419	-----	-----	-----	21,305	-----
0129 FIELD CROPS, NEC-----	74,890	7,250	192	-----	-----	19,335	48,115
0141 FRESH AND FROZEN VEGETABLES-----	14,155	6,112	-----	-----	-----	114	9,929
0161 ANIMALS AND PRODUCTS, NEC-----	4,290	-----	-----	-----	-----	-----	4,290
0911 FRESH FISH, EXCEPT SHELLFISH-----	25,502	13,122	-----	-----	-----	12,380	-----
0912 SHELLFISH, EXCEPT PREPARED-----	9,833	6,548	-----	-----	-----	3,285	-----
1411 LIMESTONE-----	265,072	22,300	20,000	222,772	-----	-----	-----
1442 SAND, GRAVEL, CRUSHED ROCK-----	1,429,816	666,796	300	600	6,650	562,086	173,384
1451 CLAY-----	14,977	-----	14,977	-----	-----	-----	-----
2015 ANIMAL BY-PRODUCTS, NEC-----	14,149	-----	-----	-----	-----	14,149	-----
2034 VEGETABLES AND PREP, NEC-----	10,945	7,057	-----	-----	-----	-----	2,988
2042 ANIMAL FEEDS-----	1,585	-----	-----	-----	-----	-----	1,585
2089 GRAIN MILL PRODUCTS, NEC-----	22,745	-----	22,351	-----	-----	-----	394
2092 MOLASSES-----	19,051	9,363	2,141	566	-----	11,981	-----
2411 LOGS-----	15,972	15,972	-----	-----	-----	-----	-----
2412 RAFTED LOGS-----	2,732,119	811,616	329,433	879,053	580,684	76,381	54,752
2413 FUEL WOOD, CHARCOAL, WASTES-----	90,484	90,484	-----	-----	-----	-----	-----
2414 TIMBER, POSTS, POLES, PILING-----	12,176	11,976	-----	200	-----	-----	-----
2416 WOOD CHIPS, STAVES, HOLDINGS-----	1,603,421	1,403,387	41,895	53,482	21,849	101,149	1,659
2421 LUMBER-----	26,887	25,896	304	16	1,814	-----	857
2431 VENEER, PLYWOOD, WORKED WOOD-----	60	-----	-----	-----	-----	-----	66
2491 WOOD MANUFACTURES, NEC-----	5,229	4,799	298	16	116	-----	-----
2611 PULP-----	564,133	411,595	126,457	1,081	1,400	-----	3,600
2631 PAPER AND PAPERBOARD-----	32,700	-----	-----	-----	-----	9	32,699
2691 PULP AND PAPER PRODUCTS, NEC-----	1,027,246	635,018	40,742	315,033	19,881	1,989	13,983
2810 SODIUM HYDROXIDE-----	17,045	-----	-----	17,045	-----	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	134,613	-----	134,613	-----	-----	-----	-----
2871 NITROGENOUS CHEM FERTILIZERS-----	33,520	8,831	11,324	5,401	7,964	-----	-----
2876 INSECTICIDES, DISINFECTANTS-----	334	-----	-----	-----	-----	334	-----
2891 MISCELLANEOUS CHEMICAL PROD-----	150	150	-----	-----	-----	-----	-----
2911 GASOLINE-----	693,693	97,758	499,966	63,156	32,613	-----	-----
2912 JET FUEL-----	48,719	8,405	37,604	2,710	-----	-----	-----
2914 DISTILLED FUEL OIL-----	822,785	14,038	739,810	45,095	23,842	-----	-----
2915 RESIDUAL FUEL OIL-----	565,143	-----	172,059	176,231	210,653	-----	-----
2916 LUBRICATING OILS AND GREASES-----	9,800	990	8,910	2,377	1,531	-----	-----
2991 PETROLEUM AND COAL PROD, NEC-----	7,792	-----	-----	-----	7,792	-----	-----
3241 BUILDING CEMENT-----	4,000	4,000	-----	-----	-----	-----	-----
3291 MISCELLANEOUS MINERAL PROD-----	9,901	9,199	323	113	266	-----	-----
3411 FABRICATED METAL PRODUCTS-----	3,400	-----	-----	-----	3,400	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	2,158	300	-----	-----	1,800	1	57
4011 IRON AND STEEL SCRAP-----	75	-----	-----	-----	-----	-----	75
4029 WASTE AND SCRAP, NEC-----	35,853	600	5,820	5,325	4,750	500	18,850
4119 EMPTY CONTAINERS-----	11,797	-----	120	-----	-----	11,562	115
TON-MILES, INTERNAL, 289,869,018.							

TONS, ALL TRAFFIC, 42,315,270.  
TONS, ALL TRAFFIC, 2,942,501,511.

# Waterborne Commerce of the United States, 1986

PORT OF ASTORIA, OREG.

SECTION INCLUDED: (STATISTICS FOR THAT SECTION OF THE PORT WITH FRONTAGE ON THE COLUMBIA RIVER ARE ALSO INCLUDED IN STATISTICS FOR COLUMBIA AND LOWER WILLAMETTE RIVERS BELOW VANCOUVER, WASH., AND PORTLAND, OREG., AND STATISTICS FOR PORTION OF PORT WITH FRONTAGE ON YOUNGS BAY ARE ALSO INCLUDED IN STATISTICS FOR YOUNGS BAY AND YOUNGS RIVER, OREG.) CONTROLLING DEPTH: 36 FEET IN COLUMBIA RIVER AND 9 FEET IN YOUNGS BAY. PROJECT DEPTH: 40 FEET IN COLUMBIA RIVER AND 10 FEET IN YOUNGS BAY.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS	YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS
1977-----	1,540,034	1,058,929	2,628,963	10	1982-----	1,272,911	638,601	1,907,512	178
1978-----	1,379,259	951,403	2,330,662	-----	1983-----	1,122,757	538,195	1,660,952	-----
1979-----	1,507,280	929,627	2,437,137	752	1984-----	1,025,278	506,587	2,151,865	5,369
1980-----	1,565,869	871,316	2,437,185	370	1985-----	1,178,786	492,046	1,670,832	3,961
1981-----	1,438,549	598,903	2,033,492	868	1986-----	936,655	200,870	1,137,325	5,298

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC				LOCAL	
		IMPORTS	EXPORTS	COASTWISE		INTERNAL			
				RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS		
TOTAL-----	1,137,325	76,545	198,952	3,352	5,878	361,847	312,801	5,950	
0103 CORN-----	121,488	-----	121,488	-----	-----	-----	-----	-----	
0119 OILSEEDS, NEC-----	31	-----	31	-----	-----	-----	-----	-----	
0129 FIELD CROPS, NEC-----	138	-----	138	-----	-----	-----	-----	-----	
0133 COFFEE-----	79	79	-----	-----	-----	-----	-----	-----	
0141 FRESH AND FROZEN VEGETABLES-----	115	-----	115	-----	-----	-----	-----	-----	
0161 ANIMALS AND PRODUCTS, NEC-----	39	-----	39	-----	-----	-----	-----	-----	
0861 FOREST PRODUCTS, NEC-----	5	5	-----	-----	-----	-----	-----	-----	
0911 FRESH FISH, EXCEPT SHELLFISH-----	11,737	-----	11,737	-----	-----	-----	-----	-----	
0912 SHELLFISH, EXCEPT PREPARED-----	6,386	-----	6,386	-----	-----	-----	-----	-----	
1051 ALUMINUM ORES, CONCENTRATES-----	41,887	41,887	-----	-----	-----	-----	-----	-----	
1411 LIMESTONE-----	232,772	-----	232,772	-----	-----	-----	-----	-----	
1442 SAND, GRAVEL, CRUSHED ROCK-----	37,857	-----	37,857	-----	-----	-----	-----	-----	
2031 FISH AND SHELLFISH, PREPARED-----	1,302	-----	1,302	-----	-----	-----	-----	-----	
2039 PREP FRUIT AND VEG JUICE, NEC-----	2	2	-----	-----	-----	-----	-----	-----	
2049 GRAIN MILL PRODUCTS, NEC-----	19	19	-----	-----	-----	-----	-----	-----	
2061 ALCOHOLIC BEVERAGES-----	333	333	-----	-----	-----	-----	-----	-----	
2091 VEGETABLE OILS, MARG, SHORT-----	19	19	-----	-----	-----	-----	-----	-----	
2099 MISCELLANEOUS FOOD PRODUCTS-----	28	20	-----	-----	-----	-----	-----	-----	
2211 BASIC TEXTILE PRODUCTS-----	14	14	-----	-----	-----	-----	-----	-----	
2311 APPAREL-----	8	8	-----	-----	-----	-----	-----	-----	
2411 LOGS-----	269,466	269,466	-----	-----	-----	-----	-----	-----	
2412 RAFTED LOGS-----	200,870	-----	200,870	-----	144,802	56,068	-----	-----	
2421 LUMBER-----	8,026	2,994	3,336	-----	1,696	-----	-----	-----	
2431 VENEER, PLYWOOD, WORKED WOOD-----	24	24	-----	-----	-----	-----	-----	-----	
2511 FURNITURE AND FIXTURES-----	30	30	-----	-----	-----	-----	-----	-----	
2611 PULP-----	10,083	4,118	464	-----	1,800	3,701	-----	-----	
2621 STANDARD NEWSPRINT PAPER-----	1,324	-----	1,324	-----	-----	-----	-----	-----	
2631 PAPER AND PAPERBOARD-----	18,029	18,072	1,957	-----	-----	-----	-----	-----	
2691 PULP AND PAPER PRODUCTS, NEC-----	20,427	1,866	-----	-----	223	18,338	-----	-----	
2871 NITROGENOUS CHEM FERTILIZERS-----	6,980	-----	6,980	-----	-----	-----	-----	-----	
2873 PHOSPHATIC CHEM FERTILIZERS-----	2,983	-----	2,983	-----	-----	-----	-----	-----	
2914 DISTILLATE FUEL OIL-----	18,112	-----	1,678	-----	16,434	-----	-----	-----	
2916 RESIDUAL FUEL OIL-----	110,830	-----	110,830	-----	103,058	1,822	5,950	-----	
2916 LUBRICATING OILS AND GREASES-----	683	-----	683	-----	674	-----	-----	-----	
3011 RUBBER AND MISC PLASTIC PROD-----	1	1	-----	-----	-----	-----	-----	-----	
3111 LEATHER AND LEATHER PRODUCTS-----	7	7	-----	-----	-----	-----	-----	-----	
3315 IRON, STEEL SHAPES, EXC SHEET-----	446	446	-----	-----	-----	-----	-----	-----	
3324 ALUMINUM AND ALLOYS, UNWORKED-----	9,109	9,109	-----	-----	-----	-----	-----	-----	
3411 FABRICATED METAL PRODUCTS-----	26	26	-----	-----	-----	-----	-----	-----	
3511 MACHINERY, EXCEPT ELECTRICAL-----	2,672	7	-----	2,665	-----	-----	-----	-----	
3611 ELECTRICAL MACH AND EQUIP-----	50	50	-----	-----	-----	-----	-----	-----	
3711 MOTOR VEHICLES, PARTS, EQUIP-----	1,386	1,386	-----	-----	-----	-----	-----	-----	
3731 SHIPS AND BOATS-----	0	-----	0	-----	-----	-----	-----	-----	
3911 MISC MANUFACTURED PRODUCTS-----	13	13	-----	-----	-----	-----	-----	-----	
4024 PAPER WASTE AND SCRAP-----	585	-----	585	-----	-----	-----	-----	-----	
4029 WASTE AND SCRAP, NEC-----	300	-----	300	-----	200	100	-----	-----	
4112 COMMODITIES, NEC-----	594	-----	594	364	230	-----	-----	-----	

PORTS OTHER THAN PORTLAND, ASTORIA, ST. HELENS,  
LONGVIEW, VANCOUVER AND KALAMA

SECTION INCLUDED: (INCLUDED IN STATISTICS FOR COLUMBIA AND LOWER WILLAMETTE RIVERS BELOW VANCOUVER, WASH., AND PORTLAND, OREG.)  
PORTS INCLUDED: BRADWOOD, MAUNA, BEAVER POINT, RAINIER AND PRESCOTT, OREG. AND KNAPPTON, WASH. CONTROLLING DEPTH: 38 FEET. PROJECT DEPTH: 40 FEET AT LOW WATER IN MAIN CHANNEL.

COMPARATIVE STATEMENT OF TRAFFIC

(SHOPT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1977-----	1,109,627	271,370	1,471,206	1982-----	887,524	278,278	1,165,802
1978-----	1,065,602	223,610	1,289,092	1983-----	930,629	226,167	1,154,796
1979-----	1,332,426	220,773	1,553,199	1984-----	807,025	183,279	990,304
1980-----	823,095	425,052	1,248,147	1985-----	821,638	125,288	946,926
1981-----	961,164	225,314	1,186,470	1986-----	824,396	96,954	921,350

## PORTLAND, OR, DISTRICT

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PORTS OTHER THAN PORTLAND, ASTORIA, ST. HELENS,  
LONGVIEW, VANCOUVER AND KALAMA--CONTINUED

## FREIGHT TRAFFIC, 1986

## DOMESTIC

(SHORT TONS)

COMMODITY	TOTAL	COASTWISE	INTERNAL	
			RECEIPTS	SHIPMENTS
5129 FIELD CROPS, NEC	100		100	
1492 SAND, GRAVEL, CRUSHED ROCK	43,245		43,245	
2412 RAFTED LOGS	96,954		76,073	20,881
2413 FUEL WOOD, CHARCOAL, WASTES	65,036		65,036	
2416 AGG CHIPS, STAVES, HOLDINGS	287,654		286,654	1,000
2611 PULP	30,815			30,815
2691 PULP AND PAPER PRODUCTS, NEC	352,256		32,009	320,247
2911 GASOLINE	0,994	4,994		
2914 DISTILLATE FUEL OIL	761		761	
2915 RESIDUAL FUEL OIL	35,865	8,199	27,666	
3291 MISC NONMETALLIC MINERAL PROD	70		65	25
3411 FABRICATED METAL PRODUCTS	3,400			3,400
4029 WASTE AND SCRAP, NEC	200		100	100

## PORT OF LONGVIEW, WASH.

SECTION INCLUDED: (INCLUDED IN STATISTICS FOR COLUMBIA AND LOWER WILLAMETTE RIVERS BELOW VANCOUVER, WASH., AND PORTLAND, OREG.)  
CONTROLLING DEPTH: 37 FEET IN CHANNEL AND 38 FEET IN TURNING BASIN. PROJECT DEPTH: 40 FOOT CHANNEL IN COLUMBIA RIVER AND 6,000 FOOT TURNING BASIN AT LOW WATER.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS	YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS
					1977	1978	1979	1980	1981
1977-----	6,664,771	1,504,615	8,169,386	-----	1982-----	7,525,139	1,234,991	8,760,130	-----
1978-----	7,423,913	948,782	8,372,695	-----	1983-----	8,407,786	1,030,185	9,437,971	-----
1979-----	6,959,661	1,540,403	8,500,070	-----	1984-----	8,366,676	1,035,182	9,401,858	1,230
1980-----	6,543,000	1,413,229	9,956,229	-----	1985-----	7,500,810	900,745	8,449,155	335
1981-----	8,515,266	1,140,750	9,656,016	-----	1986-----	9,173,659	1,139,193	10,312,822	-----

## FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC				LOCAL	
		IMPORTS	EXPORTS	COASTWISE		INTERNAL			
				RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS		
TOTAL-----	10,312,622	781,412	6,833,673	91,243	121,568	1,549,299	786,126	149,299	
0102 BARLEY AND RYE	124,633		114,617			10,016			
0103 CORN	1,403,010		1,403,010						
0106 SORGHUM GRAINS	173,801		173,801						
0107 AMEAT	412,996		386,474			26,522			
0129 FIELD CROPS, NEC	280		280						
0141 FRESH AND FROZEN VEGETABLES	1,082	10	1,072						
0161 ANIMALS AND PRODUCTS, NEC	30	36							
0911 FRESH FISH, EXCEPT SHELLFISH	85					85			
1051 ALUMINUM ORES, CONCENTRATES	484,257	484,257							
1442 SAND, GRAVEL, CRUSHED ROCK	650							650	
1491 SALT	283,615	283,615							
1512 MEAT AND PRODUCTS, NEC	43	43							
2034 VEGETABLES AND PREP, NEC	20		20						
2039 PREP FRUIT AND VEG JUICE, NEC	127	61	66						
2042 ANIMAL FEEDS	114,860		114,860						
2081 ALCOHOLIC BEVERAGE	268	268							
2091 VEGETABLE OILS, MARG, SHORT	45	45							
2095 ICE	37	37							
2099 MISCELLANEOUS FOOD PRODUCTS	465	68	397						
2111 TOBACCO MANUFACTURES	2		2						
2211 BASIC TEXTILE PRODUCTS	10		7	3					
2311 APPAREL	17	17							
2411 LOGS	2,825,073		2,821,692			3,381			
2412 RAFTED LOGS	1,139,163					217,907	774,082	147,174	
2413 FUEL WOOD, CHARCOAL, WASTES	25,448					25,448			
2414 TIMBER, POSTS, POLES, PILING	2,282		432			1,650		200	
2416 WOOD CHIPS, STAVES, HOLDINGS	1,309,746		139,454			1,169,292		1,000	
2421 LUMBER	137,840	3	77,292		56,889			1,696	
2431 VENEER, PLYWOOD, WORKED WOOD	11,194		9,448		1,746				
2491 WOOD MANUFACTURES, NEC	210	15	195						
2511 FURNITURE AND FIXTURES	8	6	2						
2611 PULP	23,975		21,575			2,400			
2621 STANDARD NEWSPRINT PAPER	174,536		174,536						
2631 PAPER AND PAPERBOARD	52,488		52,488						
2691 PULP AND PAPER PRODUCTS, NEC	65	63	2						
2810 SODIUM HYDROXIDE	10,300				2,500		7,800		
2811 CRUDE TAR, OIL, GAS PRODUCTS	13	13							
2819 BASIC CHEMICALS AND PROD, NEC	934,089	40	934,049						
2821 PLASTIC MATERIALS	131	94	37						
2851 PAINTS	21	21							
2891 MISCELLANEOUS CHEMICAL PROD	56	56							
2915 RESIDUAL FUEL OIL	152,932		78,483			78,489			

## Waterborne Commerce of the United States, 1986

PORT OF LONGVIEW, WASH.--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		INTERNAL SHIPMENTS	LOCAL SHIPMENTS
		IMPORTS	EXPORTS	COASTWISE SHIPMENTS	RECEIPTS		
2916 LUBRICATING OILS AND GREASES-----	1,292	-----	-----	-----	-----	1,292	-----
2918 ASPHALT, TAR, AND PITCHES-----	8,269	8,269	-----	-----	-----	-----	-----
2920 COKE, PETROLEUM COKE-----	400,720	400,720	-----	-----	-----	-----	-----
2991 PETROLEUM AND COAL PROD, NEC-----	83,049	-----	16,800	58,457	7,792	-----	-----
3011 RUBBER AND MISC PLASTIC PROD-----	271	216	15	-----	-----	-----	-----
3211 GLASS AND GLASS PRODUCTS-----	1	1	-----	-----	-----	-----	-----
3291 MISC NONMETALLIC MINERAL PROD-----	4	4	-----	-----	-----	-----	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	256	256	-----	-----	-----	-----	-----
3317 IRON AND STEEL PIPE AND TUBE-----	118	118	-----	-----	-----	-----	-----
3318 FERROALLOYS-----	2,205	2,205	-----	-----	-----	-----	-----
3321 NONFERROUS METALS, NEC-----	20	20	-----	-----	-----	-----	-----
3323 LEAD AND ZINC, UNWORKED-----	339	339	-----	-----	-----	-----	-----
3411 FABRICATED METAL PRODUCTS-----	3,732	332	-----	-----	-----	3,400	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	319	125	194	-----	-----	-----	-----
3611 ELECTRICAL MACH AND EQUIP-----	266	261	5	-----	-----	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	302	270	18	14	-----	-----	-----
3721 AIRCRAFT AND PARTS-----	1	1	-----	-----	-----	-----	-----
3731 SHIPS AND BOATS-----	11	11	-----	-----	-----	-----	-----
3811 INSTR, TIME, PHOTO, UPT GOODS-----	9	3	6	-----	-----	-----	-----
3931 MISC MANUFACTURED PRODUCTS-----	204	198	6	-----	-----	-----	-----
4011 IRON AND STEEL SCRAP-----	11	11	-----	-----	-----	-----	-----
4012 NONFERROUS METAL SCRAP-----	4,536	4,536	-----	-----	-----	-----	-----
4022 TEXTILE WASTE, SCRAP, SWEEP-----	10	10	-----	-----	-----	-----	-----
4029 WASTE AND SCRAP, NEC-----	4,450	-----	-----	-----	-----	1,625	1,900
4112 COMMODITIES, NEC-----	1,766	18	1,746	2	-----	925	-----

PORT OF KALAMA, WASH.

SECTION INCLUDED: (INCLUDED IN STATISTICS FOR COLUMBIA AND LOWER WILLAMETTE RIVERS BELOW VANCOUVER, WASH., AND PORTLAND, OREG.)  
CONTROLLING DEPTH: 38 FEET, PROJECT DEPTH: 40 FEET AT LOW WATER.

## COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1977-----	671,322	187,652	858,974	1982-----	1,382,389	106,403	1,488,792
1978-----	854,474	167,749	1,013,223	1983-----	1,599,623	90,934	1,690,757
1979-----	977,278	164,573	1,141,651	1980-----	5,370,724	59,686	5,430,412
1980-----	1,311,370	154,322	1,465,692	1985-----	6,401,401	50,303	6,451,704
1981-----	1,521,654	136,792	1,658,446	1986-----	2,007,042	36,821	2,043,863

## FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		INTERNAL SHIPMENTS	LOCAL SHIPMENTS
		IMPORTS	EXPORTS	COASTWISE SHIPMENTS	RECEIPTS		
TOTAL-----	2,043,863	45,261	1,657,126	12,700	301,589	27,187	-----
0102 BARLEY AND RYE-----	157,621	-----	92,793	-----	64,828	-----	-----
0103 CORY-----	1,296,384	-----	1,283,723	-----	2,661	-----	-----
0106 SORGHUM GRAINS-----	66,852	-----	66,852	-----	-----	-----	-----
0107 WHEAT-----	426,770	-----	200,628	-----	216,018	6,124	-----
0129 FIELD CROPS, NEC-----	46	-----	46	-----	-----	-----	-----
0911 FRESH FISH, EXCEPT SHELLFISH-----	1	-----	-----	-----	1	-----	-----
2014 TALLOW, ANIMAL FATS AND OILS-----	1,102	-----	1,102	-----	-----	-----	-----
2091 VEGETABLE OILS, MARG, SHORT-----	1,120	1,120	-----	-----	-----	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	1	-----	1	-----	-----	-----	-----
2411 LOGS-----	3,955	-----	3,955	-----	-----	-----	-----
2412 RAFTED LOGS-----	36,821	-----	-----	-----	14,208	22,613	-----
2416 WOOD CHIPS, STAVES, HOLDINGS-----	26,000	-----	28,000	-----	-----	-----	-----
2421 LUMBER-----	12,700	-----	-----	12,700	-----	-----	-----
2431 VENEER, PLYWOOD, WORKED WOOD-----	16	16	-----	-----	-----	-----	-----
2511 FURNITURE AND FIXTURES-----	8	-----	8	-----	-----	-----	-----
2813 ALCOHOLS-----	9,950	9,950	-----	-----	-----	-----	-----
2817 BENZENE AND TOLUENE-----	34,021	34,021	-----	-----	-----	-----	-----
2871 NITROGENOUS CHEM FERTILIZERS-----	984	984	-----	-----	984	984	-----
2915 RESIDUAL FUEL OIL-----	1,921	-----	-----	-----	1,921	1,921	-----
2916 LUBRICATING OILS AND GREASES-----	518	-----	-----	-----	518	518	-----
3011 RUBBER AND MISC PLASTIC PROD-----	1	-----	1	-----	-----	-----	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	144	144	-----	-----	-----	-----	-----
3411 FABRICATED METAL PRODUCTS-----	1	-----	1	-----	-----	-----	-----
3611 ELECTRICAL MACH AND EQUIP-----	10	10	-----	-----	-----	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	15	15	-----	15	-----	-----	-----
4029 WASTE AND SCRAP, NEC-----	900	-----	-----	-----	450	450	-----

**PORLAND, OR, DISTRICT**

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MULTNOMAH CHANNEL, OREG.

SECTION INCLUDED: A SIDE CHANNEL FROM THE WILLAMETTE RIVER NEAR PORTLAND, OREG., TO THE COLUMBIA RIVER NEAR ST. HELENS, OREG., A DISTANCE OF ABOUT 22 MILES. CONTROLLING DEPTH: 18 FEET IN A 300-FOOT CHANNEL AT NORTH END; 14.5 TO 21 FEET IN A 250-FOOT CHANNEL AT SOUTH END; 8 TO 50 FEET IN REMAINDER OF CHANNEL. PROJECT DEPTH: 25 FEET DEEP AND 5,000 FEET LONG AT THE COLUMBIA RIVER END; 25 FEET DEEP AND 9,500 FEET LONG AT THE WILLAMETTE RIVER END.

COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1977-----	1,397,675	759,040	2,156,715	1982-----	1,029,191	521,972	1,601,163
1978-----	1,656,217	584,680	2,241,097	1983-----	1,422,424	328,676	1,751,100
1979-----	1,348,658	756,553	2,105,211	1984-----	744,756	375,793	1,120,549
1980-----	1,120,079	770,197	1,890,276	1985-----	1,173,828	375,846	1,547,674
1981-----	1,251,192	435,287	1,686,479	1986-----	1,036,915	353,003	1,389,918

\* PASSENGERS--26,338.

FREIGHT TRAFFIC, 1986

DOMESTIC

(SHORT TONS)

COMMODITY	TOTAL	INTERNAL		
		INBOUND	OUTBOUND	UPBOUND
TOTAL-----	1,389,918	258,130	1,127,850	3,938
1442 SAND, GRAVEL, CRUSHED ROCK-----	610,538	-----	610,538	-----
2412 RAFTED LOGS-----	353,003	241,465	107,600	3,938
2416 WOOD CHIPS, STAVES, MOLDINGS-----	56,522	-----	56,522	-----
2611 PULP-----	352,200	-----	352,200	-----
2915 RESIDUAL FUEL OIL-----	16,065	16,065	-----	-----
2916 LUBRICATING OILS AND GREASES-----	990	-----	990	-----
4029 WASTE AND SCRAP, NEC-----	600	600	-----	-----
TOTAL TON-MILES, 6,396,604.				

OREGON SLOUGH (NORTH PORTLAND HARBOR), OREG.

SECTION INCLUDED: FROM DEEP WATER IN THE COLUMBIA RIVER TO A POINT ABOVE THE PORTLAND UNION STOCK YARDS, A DISTANCE OF NEARLY 4 MILES. CONTROLLING DEPTH: 11 FEET. PROJECT DEPTH: 20 FEET.

COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1977-----	158,611	131,768	290,379	1982-----	667,232	1,066	669,198
1978-----	312,064	202,311	514,375	1983-----	861,292	1,435	862,727
1979-----	329,216	60,913	390,129	1984-----	680,179	2,720	682,899
1980-----	306,665	20,605	327,470	1985-----	730,519	3,084	733,603
1981-----	692,650	17,726	710,376	1986-----	631,713	-----	631,713

FREIGHT TRAFFIC, 1986

DOMESTIC

(SHORT TONS)

COMMODITY	TOTAL	COASTWISE		INTERNAL	
		RECEIPTS	SHIPMENTS	INBOUND	OUTBOUND
TOTAL-----	631,713	35,780	116,112	291,664	166,357
0103 CORN-----	748	-----	748	-----	-----
0105 RICE-----	43	23	20	-----	-----
0111 SOYBEANS-----	631	-----	631	-----	-----
0122 HAY AND FORDER-----	21,305	-----	21,305	-----	-----
0129 FIELD CROPS, NEC-----	67,716	-----	48,281	19,435	-----
0131 FRESH FRUITS-----	2,049	1,547	502	-----	-----
0133 COFFEE-----	12	12	-----	-----	-----
0141 FRESH AND FROZEN VEGETABLES-----	24,090	-----	14,047	9,929	114
0161 ANIMALS AND PRODUCTS, NEC-----	4,290	-----	4,290	-----	-----
0861 FOREST PRODUCTS, NEC-----	654	76	578	-----	-----
0912 SHELLFISH, EXCEPT PREPARED-----	116	14	102	-----	-----
1411 LIMESTONE-----	10,000	-----	-----	-----	10,000
1442 SAND, GRAVEL, CRUSHED ROCK-----	230,219	-----	100,511	129,708	-----
1499 NONMETALLIC MINERALS, NEC-----	577	-----	577	-----	-----
2011 MEAT, FRESH, CHILLED, FROZEN-----	109	1	108	-----	-----
2015 ANIMAL BY-PRODUCTS, NEC-----	14,149	-----	-----	14,149	-----
2021 DAIRY PRODUCTS, NEC-----	62	-----	62	-----	-----
2034 VEGETABLES AND PREP, NEC-----	4,797	264	1,545	2,988	-----
2039 PREP FRUIT AND VEG JUICE, NEC-----	11,933	11,657	276	-----	-----
2042 ANIMAL FEEDS-----	11,834	-----	10,249	1,585	-----
2049 GRAIN MILL PRODUCTS, NEC-----	398	-----	-----	394	-----
2061 SUGAR-----	777	777	-----	-----	-----
2062 MOLASSES-----	34,542	18,198	-----	-----	16,384
2081 ALCOHOLIC BEVERAGES-----	3,040	-----	3,040	-----	-----

## Waterborne Commerce of the United States, 1986

OREGON SLOUGH (NORTH PORTLAND HARBOR), OREG.--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

DOMESTIC--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	COASTWISE		INTERNAL	
		RECEIPTS	SHIPMENTS	INBOUND	OUTBOUND
2091 VEGETABLE OILS, MARC, SHORT-----	37	-----	37	-----	-----
2094 GROCERIES-----	403	6	397	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	971	24	947	-----	-----
2413 FUEL WOOD, CHARCOAL, WASTES-----	1,545	6	1,539	-----	-----
2416 WOOD CHIPS, STAVES, HOLDINGS-----	1,659	-----	1,659	-----	-----
2421 LUMBER-----	22,605	-----	21,748	857	-----
2431 VENEER, PLYWOOD, WORKED WOOD-----	6,338	-----	6,250	88	-----
2491 WOOD MANUFACTURES, NEC-----	2,019	-----	2,019	-----	-----
2511 FURNITURE AND FIXTURES-----	970	626	344	-----	-----
2611 PULP-----	3,600	-----	3,600	-----	-----
2621 STANDARD NEWSPRINT PAPER-----	51	-----	51	-----	-----
2631 PAPER AND PAPERBOARD-----	39,379	-----	6,671	32,699	9
2691 PULP AND PAPER PRODUCTS, NEC-----	20,888	-----	7,723	13,165	-----
2812 DYES, PIGMENT, TANNING MATS-----	48	-----	48	-----	-----
2816 RADIOACTIVE MATERIALS, WASTES-----	93	93	-----	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	2,656	42	2,614	-----	-----
2821 PLASTIC MATERIALS-----	1,011	-----	1,011	-----	-----
2831 DRUGS-----	9	-----	9	-----	-----
2851 PAINTS-----	56	33	23	-----	-----
2871 NITROGENOUS CHEM FERTILIZERS-----	6,299	-----	6,299	-----	-----
2876 INSECTICIDES, DISINFECTANTS-----	434	-----	100	-----	334
2879 FERTILIZER AND MATERIALS, NEC-----	146	-----	146	-----	-----
2915 RESIDUAL FUEL OIL-----	34,324	-----	34,324	-----	-----
2916 LUBRICATING OILS AND GREASES-----	14	-----	14	-----	-----
2918 ASPHALT, TAR, AND PITCHES-----	1,085	-----	1,085	-----	-----
2951 ASPHALT BUILDING MATERIALS-----	350	-----	350	-----	-----
2991 PETROLEUM AND COAL PROD, NEC-----	9	-----	9	-----	-----
3011 RUBBER AND MISC PLASTIC PROD-----	153	37	116	-----	-----
3251 STRUCTURAL CLAY PRODUCTS-----	77	-----	77	-----	-----
3271 LIME-----	19	-----	19	-----	-----
3291 MISC NONMETALLIC MINERAL PROD-----	4,328	-----	4,328	-----	-----
3312 SLAG-----	2,402	-----	2,402	-----	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	109	-----	109	-----	-----
3316 IRON AND STEEL PLATES, SHEETS-----	1,329	-----	1,329	-----	-----
3517 IRON AND STEEL PIPE AND TUBE-----	1,983	-----	1,983	-----	-----
3411 FABRICATED METAL PRODUCTS-----	6,014	22	5,992	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	835	157	620	57	1
3611 ELECTRICAL MACH AND EQUIP-----	631	-----	631	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	2,668	994	1,674	-----	-----
3721 AIRCRAFT AND PARTS-----	3	-----	3	-----	-----
3731 SHIPS AND BOATS-----	12	2	10	-----	-----
3791 MISC TRANSPORTATION EQUIPMENT-----	1	-----	1	-----	-----
3911 MISC MANUFACTURED PRODUCTS-----	830	69	761	-----	-----
4011 IRON AND STEEL SCRAP-----	352	277	-----	75	-----
4029 WASTE AND SCRAP, NEC-----	850	-----	-----	850	-----
4112 COMMODITIES, NEC-----	6,191	660	5,531	-----	-----
4119 EMPTY CONTAINERS-----	11,840	163	-----	115	11,562

## PORT OF VANCOUVER, WASH.

SECTION INCLUDED: (STATISTICS FOR THAT SECTION OF THE PORT BELOW INTERSTATE BRIDGE ARE ALSO INCLUDED IN THE STATISTICS FOR COLUMBIA AND LOWER WILLAMETTE RIVERS BELOW VANCOUVER, WASH., AND PORTLAND, OREG., AND STATISTICS FOR SECTION ABOVE INTERSTATE BRIDGE ARE ALSO INCLUDED IN STATISTICS FOR COLUMBIA RIVER FROM VANCOUVER, WASH., TO THE DALLES, OREG.) CONTROLLING DEPTHS: 26 FEET AT LOW WATER FOR THAT SECTION OF THE PORT BELOW RAILROAD BRIDGE AND 15 FEET FOR THAT SECTION OF THE PORT ABOVE INTERSTATE BRIDGE. PROJECT DEPTH: 40 FEET AT LOW WATER IN THE LOWER TURNING BASIN AND 35 FEET AT LOW WATER IN THE UPPER TURNING BASIN.

## COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1977-----	2,568,201	264,472	2,832,673	1982-----	2,668,608	65,967	2,734,575
1978-----	2,941,679	273,103	3,214,782	1983-----	2,960,929	47,642	3,008,571
1979-----	3,041,547	184,985	3,226,532	1984-----	3,389,375	66,599	3,455,974
1980-----	2,779,893	131,559	2,911,452	1985-----	5,279,140	50,675	5,329,815
1981-----	2,640,455	115,153	2,755,608	1986-----	2,802,061	50,394	2,852,455

\* PASSENGERS--8,482.

## FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		INTERNAL	
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS
TOTAL-----	2,852,455	576,395	280,613	18,349	8,579	1,800,214	168,305
0102 BARLEY AND RYE-----	2,932	-----	-----	-----	-----	2,932	-----
0103 CORN-----	83	-----	83	-----	-----	-----	-----
0107 WHEAT-----	1,417,005	-----	114,682	-----	-----	1,299,143	3,380
0129 FIELD CROPS, NEC-----	1,503	55	720	-----	-----	768	-----
0133 COFFEE-----	134	134	-----	-----	-----	-----	-----
0141 FRESH AND FROZEN VEGETABLES-----	10,806	-----	8,541	-----	-----	2,265	-----
0161 ANIMALS AND PRODUCTS, NEC-----	704	704	-----	-----	-----	-----	-----

## PORTLAND, OR, DISTRICT

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PORT OF VANCOUVER, WASH.--CONTINUED  
FREIGHT TRAFFIC, 1966--CONTINUED

(SHDRT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC			
				COASTWISE		INTERNAL	
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS
0841 CHUDE RUBBER AND ALLIED GUMS-----	19	19	-----	-----	-----	-----	-----
0861 FOREST PRODUCTS, NEC-----	81	81	-----	-----	-----	-----	-----
0911 FRESH FISH, EXCEPT SHELLFISH-----	794	-----	-----	-----	794	-----	-----
0912 SHELLFISH, EXCEPT PREPARED-----	162	-----	-----	-----	162	-----	-----
1021 COPPER ORE AND CONCENTRATES-----	23,699	23,699	-----	-----	-----	-----	-----
1051 ALUMINUM ORES, CONCENTRATES-----	418,294	418,294	-----	-----	-----	-----	-----
1091 NONFERROUS ORES, CONCENTRATES, NEC-----	5,316	5,316	-----	-----	-----	-----	-----
1451 CLAY-----	10,954	10,954	-----	-----	-----	-----	-----
1499 NONMETALLIC MINERALS, NEC-----	5,007	5,007	-----	-----	-----	-----	-----
2015 ANIMAL BY-PRODUCTS, NEC-----	79	79	-----	-----	-----	-----	-----
2031 FISH AND SHELLFISH, PREPARED-----	43	43	-----	-----	-----	-----	-----
2034 VEGETABLES AND PREP, NEC-----	392	392	-----	-----	-----	-----	-----
2039 PREP FRUIT AND VEG JUICE, NEC-----	580	571	9	-----	-----	-----	-----
2042 ANIMAL FEEDS-----	22,134	22,134	-----	-----	-----	-----	-----
2081 ALCOHOLIC BEVERAGES-----	19	19	-----	-----	-----	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	215	215	-----	-----	-----	-----	-----
2211 BASIC TEXTILE PRODUCTS-----	438	287	151	-----	-----	-----	-----
2311 APPAREL-----	3	3	-----	-----	-----	-----	-----
2411 LOGS-----	982	-----	-----	-----	942	-----	-----
2412 RAFTED LOGS-----	50,394	-----	-----	-----	20,590	29,804	-----
2414 TIMBER, POSTS, PULES, PILING-----	2,272	29	1,783	-----	-----	-----	500
2416 WOOD CHIPS, STAVES, HOLDINGS-----	3,339	-----	-----	-----	839	2,500	-----
2421 LUMBER-----	40,254	12,812	35,904	-----	68	470	-----
2431 VENEER, PLYWOOD, WORKED WOOD-----	25,185	25,210	175	-----	-----	-----	-----
2491 WOOD MANUFACTURES, NEC-----	4,963	2,322	1,710	-----	66	465	-----
2511 FURNITURE AND FIXTURES-----	5	5	-----	-----	-----	-----	-----
2611 PULP-----	353,292	-----	92	-----	353,200	-----	-----
2621 STANDARD NEWSPRINT PAPER-----	625	79	546	-----	-----	-----	-----
2631 PAPER AND PAPERBOARD-----	20,018	1,744	18,274	-----	-----	-----	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	85	37	48	-----	-----	-----	-----
2711 PRIVATE WATER-----	2	-----	2	-----	-----	-----	-----
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	5	-----	5	-----	-----	-----	-----
2813 ALCOHOLS-----	19,155	9,474	-----	2,752	6,929	-----	-----
2817 BENZENE AND TOLUENE-----	661	661	-----	-----	-----	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	1,499	269	5	-----	-----	-----	1,225
2821 PLASTIC MATERIALS-----	6	8	-----	-----	-----	-----	-----
2831 DRUGS-----	1	-----	1	-----	-----	-----	-----
2841 SOAP-----	13	-----	13	-----	-----	-----	-----
2851 PAINTS-----	10	1	9	-----	-----	-----	-----
2871 NITROGENOUS CHEM FERTILIZERS-----	44,779	6,181	-----	-----	25,144	13,454	-----
2876 INSECTICIDES, DISINFECTANTS-----	4	-----	4	-----	-----	-----	-----
2891 MISCELLANEOUS CHEMICAL PROD-----	976	3	5	968	-----	-----	-----
2911 GASOLINE-----	119,086	10,993	-----	13,013	1,650	20,594	72,796
2914 DISTILLATE FUEL OIL-----	46,462	-----	-----	-----	-----	13,230	33,232
2915 RESIDUAL FUEL OIL-----	58,033	-----	-----	-----	-----	57,669	364
2916 LUBRICATING OILS AND GREASES-----	3,358	-----	-----	1,616	-----	1,742	-----
2920 COKE, PETROLEUM COKE-----	13,230	-----	13,230	-----	-----	-----	-----
3011 RUBBER AND MISC PLASTIC PROD-----	20	21	3	-----	-----	-----	-----
3111 LEATHER AND LEATHER PRODUCTS-----	11	8	3	-----	-----	-----	-----
3211 GLASS AND GLASS PRODUCTS-----	74	18	56	-----	-----	-----	-----
3241 BUILDING CEMENT-----	17,779	13,779	-----	-----	-----	-----	8,000
3251 STRUCTURAL CLAY PRODUCTS-----	5	-----	5	-----	-----	-----	-----
3291 MISC NONMETALLIC MINERAL PROD-----	4,722	191	-----	-----	-----	66	4,465
3315 IRON, STEEL SHAPES, EXC SHEET-----	26,463	26,462	1	-----	-----	-----	-----
3317 IRON AND STEEL PIPE AND TUBE-----	20,639	20,639	-----	-----	-----	-----	-----
3318 FERROALLOYS-----	602	602	-----	-----	-----	-----	-----
3319 IRON AND STEEL PRODUCTS, NEC-----	233	233	-----	-----	-----	-----	-----
3321 NONFERROUS METALS, NEC-----	549	549	-----	-----	-----	-----	-----
3322 COPPER ALLOYS, UNWORKED-----	40	40	-----	-----	-----	-----	-----
3324 ALUMINUM AND ALLOYS, UNWORKED-----	816	813	5	-----	-----	-----	-----
3411 FABRICATED METAL PRODUCTS-----	8,418	8,120	298	-----	-----	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	2,036	416	1,618	-----	-----	-----	-----
3611 ELECTRICAL MACH AND EQUIP-----	200	159	81	-----	-----	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	6,629	8,597	32	-----	-----	-----	-----
3721 AIRCRAFT AND PARTS-----	1	-----	1	-----	-----	-----	-----
3731 SHIPS AND BOATS-----	275	275	-----	-----	-----	-----	-----
3811 INSTN, TIME, PHOTO, OPT GOODS-----	5	-----	5	-----	-----	-----	-----
3911 MISC MANUFACTURED PRODUCTS-----	57	12	45	-----	-----	-----	-----
4011 IRON AND STEEL SCRAP-----	53	-----	53	-----	-----	-----	-----
4012 NONFERROUS METAL SCRAP-----	18,549	-----	18,549	-----	-----	-----	-----
4029 WASTE AND SCRAP, NEC-----	1,650	-----	-----	-----	-----	-----	1,650
4112 COMMODITIES, NEC-----	1,702	105	1,597	-----	-----	-----	-----
9999 DEPARTMENT OF DEFENSE AND SCI-----	9	-----	9	-----	-----	-----	-----

# Waterborne Commerce of the United States, 1986

COLUMBIA RIVER BETWEEN VANCOUVER, WASH.,  
AND THE DALLES, OREG.

SECTION INCLUDED: COLUMBIA RIVER BETWEEN VANCOUVER, WASH., AND THE DALLES, OREG., A DISTANCE OF ABOUT 85 MILES. CONTROLLING DEPTHS: 15 FEET BETWEEN VANCOUVER AND THE DALLES. PROJECT DEPTHS: 27 FEET.

COMPARATIVE STATEMENT OF TRAFFIC  
(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1977-----	6,760,767	1,416,085	8,176,852	1982-----	7,750,152	1,016,249	8,766,401
1978-----	7,876,232	1,112,512	8,988,744	1983-----	8,036,549	951,000	8,987,549
1979-----	6,194,993	1,111,874	9,306,867	1984-----	9,400,599	730,165	10,130,764
1980-----	9,148,764	1,599,325	10,748,089	1985-----	7,483,841	862,710	8,346,551
1981-----	9,075,436	1,233,697	10,309,135	1986-----	8,176,082	958,286	9,134,368

\* PASSENGERS--181,467.

FREIGHT TRAFFIC, 1986

DOMESTIC

(SHORT TONS)

COMMODITY	TOTAL	INTERNAL					THROUGH
		INBOUND	OUTBOUND	UPBOUND	DOWNBOUND	UPBOUND	
TOTAL-----	9,134,368	462,132	1,885,043	492,165	394,338	1,549,693	4,750,997
0102 BARLEY AND RYE-----	369,981	-----	5,353	-----	-----	-----	364,628
0103 CORN-----	6,172	-----	-----	-----	-----	-----	6,172
0107 WHEAT-----	3,427,370	-----	73,988	-----	-----	-----	3,353,382
0111 SOYBEANS-----	631	-----	-----	-----	-----	-----	631
0122 HAY AND FOULEN-----	21,724	-----	-----	-----	-----	-----	21,724
0129 FIELD CROPS, NEC-----	74,622	-----	-----	-----	-----	19,359	55,263
0141 FRESH AND FROZEN VEGETABLES-----	18,155	-----	-----	-----	-----	114	14,041
0161 ANIMALS AND PRODUCTS, NEC-----	8,290	-----	-----	-----	-----	-----	4,290
0911 FRESH FISH, EXCEPT SHELLFISH-----	5,029	5,029	-----	-----	-----	-----	-----
0912 SHELLFISH, EXCEPT PREPARED-----	15	15	-----	-----	-----	-----	-----
1411 LIMESTONE-----	12,300	-----	12,300	-----	-----	-----	-----
1442 SAND, GRAVEL, CRUSHED ROCK-----	109,676	6,800	103,376	-----	1,500	-----	-----
1451 CLAY-----	5,925	5,925	-----	-----	-----	-----	-----
2015 ANIMAL BY-PRODUCTS, NEC-----	14,149	-----	-----	-----	-----	-----	14,149
2034 VEGETABLES AND PREP, NEC-----	10,945	-----	-----	-----	-----	-----	10,945
2042 ANIMAL FEEDS-----	1,675	-----	90	-----	-----	-----	1,585
2049 GRAIN MILL PRODUCTS, NEC-----	6,216	5,824	-----	-----	-----	-----	394
2062 MOLASSES-----	14,122	-----	-----	-----	-----	14,122	-----
2411 LOGS-----	29,765	13,291	-----	500	-----	-----	15,972
2412 RAFTED LOGS-----	458,286	131,144	173,395	488,950	168,797	-----	-----
2413 FUEL WOOD, CHARCOAL, WASTES-----	72,533	-----	54,426	-----	5,662	-----	12,445
2414 TIMBER, POSTS, POLES, PILING-----	11,976	-----	2,150	-----	-----	-----	9,826
2416 WOOD CHIPS, STAVES, HOLDINGS-----	1,531,864	179,820	506,484	214,242	3,847	627,471	-----
2421 LUMBER-----	6,115	304	4,802	152	-----	-----	657
2431 VENEER, PLYWOOD, WORKED WOOD-----	88	-----	-----	-----	-----	-----	88
2491 WOOD MANUFACTURES, NEC-----	5,246	298	4,799	149	-----	-----	-----
2611 PULP-----	86,861	21,866	1,000	-----	-----	-----	61,995
2631 PAPER AND PAPERBOARD-----	32,708	-----	-----	-----	9	32,699	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	565,812	39,095	513,552	-----	-----	-----	13,165
2819 BASIC CHEMICALS AND PROD, NEC-----	135,830	-----	1,225	-----	138,613	-----	-----
2871 NITROGENOUS CHEM FERTILIZERS-----	38,718	10,912	13,454	-----	5,521	8,831	-----
2876 INSECTICIDES, DISINFECTANTS-----	334	-----	-----	-----	334	-----	-----
2891 MISCELLANEOUS CHEMICAL PROD-----	150	-----	150	-----	-----	-----	-----
2911 GASOLINE-----	597,722	-----	-----	-----	-----	-----	-----
2912 JET FUEL-----	46,009	-----	-----	-----	499,968	97,754	-----
2914 DISTILLATE FUEL OIL-----	751,955	5,027	-----	-----	37,600	8,405	-----
2915 RESIDUAL FUEL OIL-----	117,339	32,606	-----	-----	732,890	14,038	-----
2916 LUBRICATING OILS AND GREASES-----	6,896	-----	-----	-----	84,733	-----	-----
3241 BUILDING CEMENT-----	6,000	-----	4,000	-----	4,896	-----	-----
3291 MISC NONMETALLIC MINERAL PROD-----	9,846	323	9,199	224	100	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	1,458	1,000	300	-----	100	-----	57
4011 IRON AND STEEL SCRAP-----	75	-----	-----	-----	1	-----	75
4029 WASTE AND SCRAP, NEC-----	14,953	4,653	1,000	6,000	3,100	-----	-----
4118 WATERWAY IMPROVEMENT MAT-----	1,027	-----	-----	190	837	-----	-----
4119 EMPTY CONTAINERS-----	11,797	-----	-----	-----	-----	11,682	115
TOTAL TON-MILES,	552,034,974	-----	-----	-----	-----	-----	-----

COLUMBIA RIVER ABOVE THE DALLES DAM, WASH., AND OREG., TO MCNARY LOCK AND DAM, OREG., AND WASH.

SECTION INCLUDED: COLUMBIA RIVER BETWEEN THE DALLES DAM AND MCNARY LOCK AND DAM, A DISTANCE OF ABOUT 91 MILES. CONTROLLING DEPTHS: WITHIN THE DALLES AND JOHN DAY POOLS, 14 FEET. PROJECT DEPTHS: 14 FEET AT ADJUSTED LOW WATER.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977-----	4,865,268	1982-----	7,368,699
1978-----	6,118,003	1983-----	6,939,894
1979-----	6,442,713	1984-----	7,519,804
1980-----	7,725,206	1985-----	5,865,134
1981-----	8,107,034	1986-----	6,612,941

\* PASSENGERS--4,180.

## PORTLAND, OR, DISTRICT

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COLUMBIA RIVER ABOVE THE DALLES DAM, WASH., AND OREG. TO  
MCNARY LOCK AND DAM, OREG. AND WASH.--CONTINUED

## FREIGHT TRAFFIC, 1986

## DOMESTIC

(SHORT TUNS)

COMMODITY	TOTAL	INTERNAL			
		INBOUND	OUTBOUND	UPBOUND	DOWNBOUND
TOTAL	6,812,941	1,952	666,536	1,599,809	4,144,644
0102 BARLEY AND RYE	364,628		35,190		329,438
0103 CORN	6,172		5,424		748
0107 WHEAT	3,353,382		306,911		3,046,471
0111 SOYBEANS	641				631
0122 HAY AND FODDER	21,724		15,212		8,512
0129 FIELD CROPS, NEC	74,622			19,359	55,263
0141 FRESH AND FROZEN VEGETABLES	14,155		3,280	114	10,761
0161 ANIMALS AND PRODUCTS, NEC	4,290				4,290
2015 ANIMAL BY-PRODUCTS, NEC	14,149		52		14,097
2034 VEGETABLES AND PREP, NEC	10,945				10,945
2042 ANIMAL FEEDS	1,765	90	90		1,585
2089 GRAIN MILL PRODUCTS, NEC	394		394		
2062 MOLASSES	14,122			14,122	
2411 LOGS	29,263				29,263
2413 FUEL WOOD, CHARCOAL, WASTES	13,833			1,388	12,445
2418 TIMBER, POSTS, POLES, PILING	9,826				9,826
2416 WOOD CHIPS, STAVES, HOLDINGS	707,698		301,899	39,604	366,195
2421 LUMBER	857				857
2431 VENEER, PLYWOOD, MURKED WOOD	88				88
2611 PULP	61,995				61,995
2631 PAPER AND PAPERBOARD	32,708			9	32,699
2691 PULP AND PAPER PRODUCTS, NEC	13,165				13,165
2819 BASIC CHEMICALS AND PROD, NEC	155,838			135,838	
2871 NITROGENOUS CHEM FERTILIZERS	32,915			18,975	13,940
2876 INSECTICIDES, DISINFECTANTS	334			334	
2911 GASOLINE	597,722			499,968	97,754
2912 JET FUEL	46,049			37,604	8,405
2914 DISTILLATE FUEL OIL	746,928			732,890	14,038
2915 RESIDUAL FUEL OIL	84,733			84,733	
2916 LUBRICATING OILS AND GREASES	8,496			4,896	
3511 MACHINERY, EXCEPT ELECTRICAL	1,058			1	1,057
4011 IRON AND STEEL SCRAP	75				75
4119 EMPTY CONTAINERS	12,021	1,862	84	9,974	101
TOTAL TON-MILES	620,102,846				

## PORT OF PORTLAND, OREG.

SECTION INCLUDED: (STATISTICS FOR THAT SECTION OF PORTLAND HARBOR BELOW ROSS ISLAND BRIDGE ARE ALSO INCLUDED IN STATISTICS FOR COLUMBIA AND LOWER WILLAMETTE RIVERS BELOW VANCOUVER, WASH., AND PORTLAND, OREG., AND STATISTICS FOR SECTION ABOVE ROSS ISLAND BRIDGE ARE ALSO INCLUDED IN STATISTICS FOR WILLAMETTE RIVER ABOVE PORTLAND AND YAMhill RIVER, OREG.) CONTROLLING DEPTH: 26 FEET FROM MOUTH TO BROADWAY BRIDGE; 20 FEET AT LOW WATER ABOVE ROSS ISLAND BRIDGE TO LAKE OSWEGO; 9 FEET TO OREGON CITY. PROJECT DEPTH: 40 FEET AT LOW WATER BELOW BROADWAY BRIDGE; 30 FEET FROM BROADWAY BRIDGE TO FOOT OF ROSS ISLAND, MAINTAINED BY PORT OF PORTLAND; 8 FEET AT LOW WATER ABOVE FOOT OF ROSS ISLAND.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS	YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS
1977-----	20,577,249	623,013	21,400,262	156	1982-----	24,641,713	487,565	25,129,278	474
1978-----	25,905,104	668,239	26,573,343	-----	1983-----	25,398,242	350,782	25,749,024	-----
1979-----	28,327,795	818,666	29,146,461	10,610	1984-----	26,653,192	649,472	27,302,664	42,866
1980-----	28,633,335	680,724	29,314,059	6,178	1985-----	21,099,073	745,770	21,844,843	81,385
1981-----	27,233,073	391,656	27,624,729	5,790	1986-----	24,817,001	772,683	25,589,684	102,093

## FREIGHT TRAFFIC, 1986

(SHORT TUNS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		LOCAL		
		IMPORTS	EXPORTS	COASTWISE				
				RECEIPTS	SHIPMENTS			
TOTAL	25,589,684	2,264,148	11,570,694	2,748,405	413,089	5,431,960	2,097,568	1,063,820
0102 BARLEY AND RYE	996,151	4	703,942			292,205		
0103 CORN	65,691		62,200			3,491		
0105 RICE	4,472	311	4,162					
0106 SORGHUM GRAINS	69,038		69,038					
0107 WHEAT	10,120,321		8,205,917			1,905,135	11,944	5,325
0111 SOYBEANS	2,214		1,631			583		
0119 OILSEEDS, NEC	1,010		1,418					
0121 TOBACCO, LEAF	29		29					
0122 HAY AND FODDER	18,725			78		18,667		
0129 FIELD CROPS, NEC	71,383	818	23,366			39,987	7,044	168
0131 FRESH FRUITS	5,545	108	5,203	175	59			
0132 BANANAS AND PLANTAINS	12	12						
0133 COFFEE	122	121		1				
0134 COCOA BEANS	5	5						
0141 FRESH AND FROZEN VEGETABLES	126,969	403	113,412		3,391	9,707	56	
0151 LIVE ANIMALS	680		680					
0161 ANIMALS AND PRODUCTS, NEC	7,707	212	3,384			4,111		

## Waterborne Commerce of the United States, 1986

PORT OF PORTLAND, OREG.--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC				LOCAL	
				COASTWISE		INTERNAL			
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS		
0191 MISCELLANEOUS FARM PRODUCTS-----	1,130	980	150	-----	-----	-----	-----	-----	
0861 CRUDE RUBBER AND ALLIED GUMS-----	1,377	1,377	-----	-----	-----	-----	-----	-----	
0861 FOREST PRODUCTS, NEC-----	645	62	184	21	578	-----	-----	-----	
0911 FRESH FISH, EXCEPT SHELLFISH-----	4,160	342	3,818	-----	-----	-----	-----	-----	
0912 SHELLFISH, EXCEPT PREPARED-----	148	24	68	13	83	-----	-----	-----	
0931 MARINE SHELLS, UNMANUFACTURED-----	38	38	-----	-----	-----	-----	-----	-----	
1011 IRON ORE AND CONCENTRATES-----	11,755	-----	11,755	-----	-----	-----	-----	-----	
1021 COPPER ORE AND CONCENTRATES-----	15,584	-----	15,584	-----	-----	-----	-----	-----	
1051 ALUMINUM DRES, CONCENTRATES-----	162,697	162,697	-----	-----	-----	-----	-----	-----	
1091 NONFERROUS DRES, CONCENTR, NEC-----	44	44	-----	-----	-----	-----	-----	-----	
1311 CRUDE PETROLEUM-----	189,267	-----	189,267	-----	-----	-----	-----	-----	
1411 LIMESTONE-----	365,463	110,391	-----	-----	-----	235,072	10,000	10,000	
1442 SAND, GRAVEL, CRUSHED ROCK-----	1,982,010	212,768	43	-----	-----	1,120,629	300	600,270	
1451 CLAY-----	131,798	-----	116,821	-----	-----	-----	14,977	-----	
1491 SALT-----	289,656	282,856	-----	7,000	-----	-----	-----	-----	
1494 GYPSUM, CRUDE AND PLASTERS-----	40	40	-----	-----	-----	-----	-----	-----	
1499 NONMETALLIC MINERALS, NEC-----	35,039	337	30,122	-----	4,580	-----	-----	-----	
1911 ORDNANCE AND ACCESSORIES-----	129	128	1	-----	-----	-----	-----	-----	
2011 MEAT, FRESH, CHILLED, FROZEN-----	7,375	57	7,267	-----	51	-----	-----	-----	
2012 MEAT AND PRODUCTS, NEC-----	57	-----	57	-----	-----	-----	-----	-----	
2014 TALLOW, ANIMAL FATS AND OILS-----	6,904	-----	6,904	-----	-----	-----	-----	-----	
2015 ANIMAL BY-PRODUCTS, NEC-----	95,955	-----	32,281	-----	13,678	-----	-----	-----	
2021 DAIRY PRODUCTS, NEC-----	373	324	49	-----	-----	-----	-----	-----	
2022 DRIED MILK AND CREAM-----	1,629	-----	1,629	-----	-----	-----	-----	-----	
2031 FISH AND SHELLFISH, PREPARED-----	2,406	1,071	1,337	-----	-----	-----	-----	-----	
2034 VEGETABLES AND PREP, NEC-----	24,782	2,028	12,229	82	347	10,096	-----	-----	
2039 PREP FRUIT AND VEG JUICE, NEC-----	15,331	4,039	7,667	3,561	64	-----	-----	-----	
2041 WHEAT FLOUR AND SEMOLINA-----	27,618	-----	27,618	-----	-----	-----	-----	-----	
2042 ANIMAL FEEDS-----	118,822	149	113,675	-----	3,413	1,585	-----	-----	
2049 GRAIN MILL PRODUCTS, NEC-----	25,617	277	2,904	-----	-----	285	22,351	-----	
2062 MOLASSES-----	28,191	5,892	-----	3,248	-----	-----	14,122	4,929	
2081 ALCOHOLIC BEVERAGES-----	10,678	5,266	367	-----	5,045	-----	-----	-----	
2091 VEGETABLE OILS, MARG, SHORT-----	95,910	95,479	431	-----	-----	-----	-----	-----	
2094 GROCERIES-----	144	-----	-----	6	138	-----	-----	-----	
2099 MISCELLANEOUS FOOD PRODUCTS-----	42,946	1,189	40,753	1	1,003	-----	-----	-----	
2111 TOBACCO MANUFACTURES-----	267	-----	267	-----	-----	-----	-----	-----	
2211 BASIC TEXTILE PRODUCTS-----	2,337	2,023	284	-----	30	-----	-----	-----	
2311 APPAREL-----	1,052	1,030	18	-----	-----	-----	-----	-----	
2411 LOGS-----	421,054	184	416,007	-----	583	8,280	-----	-----	
2412 RAFTED LOGS-----	772,683	-----	-----	-----	-----	534,286	34,942	203,497	
2413 FUEL WOOD, CHARCOAL, WASTES-----	381	-----	169	6	206	-----	-----	-----	
2414 TIMBER, POSTS, POLES, PILING-----	12,335	-----	1,302	-----	707	10,326	-----	-----	
2416 NOOD CHIPS, STAVES, HOLDINGS-----	379,759	-----	363,735	-----	-----	2,533	13,491	-----	
2421 LUMBER-----	336,837	2,046	251,861	-----	76,456	26,188	286	-----	
2451 VENEER, PLYWOOD, WORKED WOOD-----	71,947	6,384	48,932	-----	16,631	-----	-----	-----	
2491 WOOD MANUFACTURES, NEC-----	94,535	1,175	35,423	-----	12,040	4,815	282	-----	
2511 FURNITURE AND FIXTURES-----	3,902	2,900	195	297	510	-----	-----	-----	
2611 PULP-----	216,266	-----	16,449	-----	-----	59,195	93,341	1,081	
2621 STANDARD NEWSPRINT PAPER-----	25,792	3,678	21,144	-----	970	-----	-----	-----	
2631 PAPER AND PAPERBOARD-----	216,538	6,815	203,618	-----	3,023	3,082	-----	-----	
2691 PULP AND PAPER PRODUCTS, NEC-----	998,864	380	176	-----	13,880	946,817	37,616	55	
2711 PRINTED MATTER-----	372	350	22	-----	-----	-----	-----	-----	
2810 BODIUM HYDROXIDE-----	125,436	-----	-----	20,422	79,169	9,880	-----	7,245	
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	5,906	2,870	1,031	2,005	-----	-----	-----	-----	
2812 DYES, PIGMENT, TANNING MATS-----	110	-----	11	-----	399	-----	-----	-----	
2813 ALCOHOLS-----	28,206	29,208	-----	-----	-----	-----	-----	-----	
2816 RADIOACTIVE MATERIALS, WASTES-----	83	65	-----	10	-----	-----	-----	-----	
2817 BENZENE AND TOLUENE-----	6,102	6,067	35	-----	-----	-----	-----	-----	
2819 BASIC CHEMICALS AND PROD, NEC-----	422,055	12,605	162,026	96,484	18,962	-----	131,998	-----	
2821 PLASTIC MATERIALS-----	3,819	2,185	1,544	-----	90	-----	-----	-----	
2822 SYNTHETIC RUBBER-----	58	-----	58	-----	-----	-----	-----	-----	
2823 SYNTHETIC (MAN-MADE) FIBERS-----	11	-----	11	-----	-----	-----	-----	-----	
2831 DRUGS-----	391	291	96	-----	8	-----	-----	-----	
2841 SOAP-----	1,170	141	1,038	-----	-----	-----	-----	-----	
2851 PAINTS-----	797	677	87	33	-----	-----	-----	-----	
2861 GUM AND WOOD CHEMICALS-----	5,287	-----	247	5,000	-----	-----	-----	-----	
2871 NITROGENOUS CHEM FERTILIZERS-----	154,487	7,036	118	137,880	6,935	-----	2,518	-----	
2876 INSECTICIDES, DISINFECTANTS-----	23	-----	23	-----	-----	-----	-----	-----	
2879 FERTILIZER AND MATERIALS, NEC-----	1,984	80	-----	-----	1,884	-----	-----	-----	
2891 MISCELLANEOUS CHEMICAL PROD-----	26,374	201	981	7,198	15,044	150	-----	-----	
2911 GASOLINE-----	1,210,051	142,013	-----	393,443	21,083	130,349	400,381	42,562	
2912 JET FUEL-----	162,200	10,440	-----	98,167	8,074	8,405	37,604	2,710	
2916 DISTILLATE FUEL OIL-----	1,462,982	9,643	-----	626,661	30,478	20,685	743,650	31,865	
2915 RESIDUAL FUEL OIL-----	1,359,972	284	-----	773,862	26,633	1,591	412,468	145,114	
2916 LUBRICATING OILS AND GREASES-----	157,523	10	55	148,640	-----	-----	8,169	649	
2917 NAPHTHA, PETROLEUM SOLVENTS-----	6,369	-----	-----	6,369	-----	-----	-----	-----	
2918 ASPHALT, TAR, AND PITCHES-----	120,639	93,668	-----	17,486	9,285	-----	-----	-----	
2920 COKE, PETROLEUM COKE-----	28,275	-----	28,275	-----	-----	-----	-----	-----	
2921 LIQUEFIED GASES-----	31	-----	31	-----	-----	-----	-----	-----	
2951 ASPHALT BUILDING MATERIALS-----	1,058	-----	27	-----	1,031	-----	-----	-----	
2991 PETROLEUM AND COAL PROD, NEC-----	220,349	2	40	212,515	-----	-----	7,702	-----	
3011 RUBBER AND MISC PLASTIC PROD-----	29,647	27,928	685	12	1,022	-----	-----	-----	
3111 LEATHER AND LEATHER PRODUCTS-----	3,858	3,230	628	-----	-----	-----	-----	-----	
3211 GLASS AND GLASS PRODUCTS-----	1,989	1,891	98	-----	-----	-----	-----	-----	
3241 BUILDING CEMENT-----	74,213	70,213	-----	-----	-----	4,000	-----	-----	
3251 STRUCTURAL CLAY PRODUCTS-----	1,914	1,620	94	-----	-----	-----	-----	-----	
3281 CUT STONE AND STONE PRODUCTS-----	920	920	-----	-----	-----	-----	-----	-----	
3291 MISC NONMETALLIC MINERAL PROD-----	18,350	1,135	611	-----	7,295	9,067	282	-----	
3312 SLAB-----	93	-----	-----	-----	93	-----	-----	-----	
3314 IRON AND STEEL PRIMARY FORMS-----	31,376	31,364	12	-----	-----	-----	-----	-----	
3315 IRON, STEEL SHAPES, EXC SHEET-----	191,200	180,052	1	-----	1,237	-----	-----	-----	
3316 IRON AND STEEL PLATES, SHEETS-----	7,229	6,491	319	-----	619	-----	-----	-----	
3317 IRON AND STEEL PIPE AND TUBE-----	65,460	64,602	107	-----	759	-----	-----	-----	
3318 FERROALLOYS-----	7,470	7,470	-----	-----	-----	-----	-----	-----	

**PORLAND, OR, DISTRICT**

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POR T OF PORTLAND, OREG.--CONTINUED  
FREIGHT TRAFFIC, 1986--CONTINUED  
(SHDRT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		LOCAL
		IMPORTS	EXPORTS	COASTWISE	INTERNAL	
				RECEIPTS	SHIPMENTS	
3319 IRON AND STEEL PRODUCTS, NEC	12,670	12,519	157			
3321 NONFERROUS METALS, NEC	1,366	220	1		1,145	
3322 COPPER ALLOYS, UNWORKED	561	293	268			
3323 LEAD AND ZINC, UNWORKED	2,718	2,718				
3324 ALUMINUM AND ALLOYS, UNWORKED	1,986	271	1,715			
3411 FABRICATED METAL PRODUCTS	84,415	77,944	2,053		4,416	
3511 MACHINERY, EXCEPT ELECTRICAL	54,772	33,428	4,035	1	15,208	300
3611 ELECTRICAL MACH AND EQUIP	14,625	12,647	1,585		393	
3711 MOTOR VEHICLES, PARTS, EQUIP	487,989	485,618	1,225	308	636	
3721 AIRCRAFT AND PARTS	63	56	6		1	
3731 SHIPS AND BOATS	304	259	32	2	11	
3791 MISCELLANEOUS TRANSPORTATION EQUIPMENT	1,152	935	61		156	
3811 INSTR, TIME, PHOTO, OPT GOOIDS	1,314	1,185	129			
3911 4ISC MANUFACTURED PRODUCTS	4,952	4,264	493	10	185	
4011 IRON AND STEEL SCRAP	246,508		248,343	90		75
4012 NONFERROUS METAL SCRAP	28,071		28,071			
4022 TEXTILE WASTE, SCRAP, SHEEP	99		99			
4029 PAPER WASTE AND SCRAP	62,123		62,123			
4029 WASTE AND SCRAP, NEC						
4112 COMMODITIES, NEC	6,876				4,800	1,728
4119 EMPTY CONTAINERS	15,499	1,276	5,852	57	8,314	350
9999 DEPARTMENT OF DEFENSE AND SCI	6,501			64		31
	19		19			6,406

WILLAMETTE RIVER ABOVE PORTLAND AND YAMHILL RIVER, OREG.

SECTION INCLUDED: WILLAMETTE RIVER FROM PORTLAND TO HARRISBURG, OREG., A DISTANCE OF 159 MILES, AND YAMMILL RIVER FROM MOUTH TO MILE 4.0. CONTROLLING DEPTHS: 9 FEET FROM PORTLAND TO OREGON CITY; 3 FEET TO CORVALLIS; 4 FEET ON YAMMILL RIVER FROM MOUTH TO MILE 4.0. PROJECT DEPTHS: WILLAMETTE RIVER, 8 FEET FROM PORTLAND TO OREGON CITY; 6 FEET FROM OREGON CITY TO MOUTH OF SANTIAM RIVER; 5 FEET FROM MOUTH OF SANTIAM RIVER TO ALBANY; 2.5 FEET TO 3.5 FEET FROM ALBANY TO CORVALLIS; NO DEPTHS PRESCRIBED FROM CORVALLIS TO HARRISBURG; YAMMILL RIVER, 4 FEET FROM MOUTH TO MILE 4.0.

**COMPARATIVE STATEMENT OF TRAFFIC**

(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1977-----	4,679,152	307,192	5,186,344	1982-----	2,444,937	398,176	2,843,113
1978-----	5,400,834	339,891	5,740,725	1983-----	2,310,753	147,085	2,457,838
1979-----	4,475,295	524,437	4,999,732	1984-----	3,263,156	327,295	3,590,451
1980-----	5,082,568	404,270	5,486,842	1985-----	3,070,902	455,275	3,526,777
1981-----	3,577,405	298,997	3,876,802	1986-----	3,088,129	343,820	3,743,949

\* PASSENGERS = 34,658.

### **FREIGHT TRAFFIC, 1986**

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN	DOMESTIC INTERNAL			
		IMPORTS	INBOUND	OUTBOUND	UPBOUND	DOWNBOUND
TOTAL-----	3,743,949	12,409	872,638	1,340,950	185,720	1,332,232
1411 LIMESTONE-----	26,344	6,344	20,000	-----	-----	916,095
1442 SAND, GRAVEL, CRUSHED ROCK-----	2,320,165	6,065	650,459	574,934	170,612	916,095
1451 CLAY-----	51,752	-----	9,052	-----	4,100	38,600
2049 GRAIN MILL PRODUCTS, NEC-----	16,527	-----	16,527	-----	-----	-----
2412 RAFTED LOGS-----	645,820	-----	59,211	331,114	4,258	251,237
2413 FUEL WOOD, CHARCOAL, WASTES-----	25,001	-----	-----	25,001	-----	-----
2416 WOOD CHIPS, STAVES, MOLDINGS-----	285,475	-----	-----	285,475	-----	-----
2611 PULP-----	104,591	-----	104,591	-----	-----	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	128,285	-----	4,454	123,831	-----	-----
2914 DISTILLATE FUEL OIL-----	1,693	-----	1,693	-----	-----	-----
2915 RESIDUAL FUEL OIL-----	5,521	-----	4,926	595	-----	-----
4029 WASTE AND SCRAP, NEC-----	132,575	-----	1,525	-----	6,750	124,300
TOTAL TON-MILES, 17,451,171.						

## Waterborne Commerce of the United States, 1986

## COOS BAY, OREG.

SECTION INCLUDED: FROM SEA TO MILLINGTON, A DISTANCE OF 17 MILES. (SAME SECTION AND STATISTICS APPLY TO PORT OF COOS BAY,) CONTROLLING DEPTHS: 30 FEET IN ENTRANCE CHANNEL; 30 FEET IN INNER CHANNEL TO MILE 15; 20 FEET IN Isthmus Slough To Millington. PROJECT DEPTHS: 45/35 FEET ON BAR AND 35 FEET FROM ENTRANCE TO MILE 15; TURNING BASINS OF SAME DEPTH OPPOSITE COALBANK SLOUGH AND AT THE CITY OF NORTH BEND; ANCHORAGE BASINS 27 FEET AT MILE 3.5 AND NEAR MILE 7; A CHANNEL 22 FEET DEEP FROM SMITH'S MILL (MILE 15) TO MILLINGTON; MOORING BASIN FOR SMALL BOATS AT CHARLESTON, WITH A CONNECTING CHANNEL 10 FEET DEEP TO DEEP WATER IN COOS BAY.

## COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1977-----	6,326,186	1,273,235	7,599,421	1982-----	4,515,440	2,265,946	6,781,386
1978-----	5,872,721	1,191,570	7,064,291	1983-----	3,997,003	778,903	4,775,906
1979-----	5,905,174	1,145,699	7,050,873	1984-----	4,283,768	1,626,061	5,909,829
1980-----	5,517,002	1,286,884	6,803,966	1985-----	5,370,322	2,264,323	7,634,645
1981-----	4,177,782	1,602,201	5,779,983	1986-----	4,573,582	1,081,021	6,054,603

## FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC			LOCAL
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	RECEIPTS	
TOTAL-----	6,054,603	7,116	4,129,217	289,968	135,403	1,156,226	336,673
0129 FIELD CROPS, NEC-----	93	87	6	-----	-----	-----	-----
0131 FRESH FRUITS-----	182	-----	182	-----	-----	-----	-----
0141 FRESH AND FROZEN VEGETABLES-----	3	-----	3	-----	-----	-----	-----
0861 FOREST PRODUCTS, NEC-----	66	66	-----	-----	-----	-----	-----
0911 FRESH FISH, EXCEPT SHELLFISH-----	8,195	-----	-----	-----	-----	8,195	-----
0912 SHELLFISH, EXCEPT PREPARED-----	3,683	-----	-----	-----	-----	3,683	-----
1442 SAND, GRAVEL, CRUSHED ROCK-----	49,737	-----	49,737	-----	-----	-----	-----
2039 PREP FRUIT AND VEG JUICE, NEC-----	64	64	-----	-----	-----	-----	-----
2081 ALCOHOLIC BEVERAGES-----	44	44	-----	-----	-----	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	95	-----	95	-----	-----	-----	-----
2111 TOBACCO MANUFACTURES-----	2	2	2	-----	-----	-----	-----
2211 BASIC TEXTILE PRODUCTS-----	179	179	-----	-----	-----	-----	-----
2311 APPAREL-----	5	5	-----	-----	-----	-----	-----
2411 LOGS-----	1,207,676	-----	1,207,676	-----	-----	-----	-----
2412 RAFTED LOGS-----	1,481,021	-----	-----	-----	-----	1,144,308	336,673
2416 WOOD CHIPS, STAVES, HOLDINGS-----	2,575,159	-----	2,575,159	-----	-----	-----	-----
2421 LUMBER-----	451,303	166	278,656	54,544	117,937	-----	-----
2431 VENEER, PLYWOOD, WORKED WOOD-----	49,437	215	41,247	26	7,949	-----	-----
2491 WOOD MANUFACTURES, NEC-----	286	126	160	-----	-----	-----	-----
2511 FURNITURE AND FIXTURES-----	22	22	-----	-----	-----	-----	-----
2611 PULP-----	15,750	-----	15,750	-----	-----	-----	-----
2631 PAPER AND PAPERBOARD-----	6,862	-----	6,862	-----	-----	-----	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	11	9	2	-----	-----	-----	-----
2719 BASIC CHEMICALS AND PROD, NEC-----	60	60	-----	-----	-----	-----	-----
2851 PAINTS-----	62	62	-----	-----	-----	-----	-----
2891 MISCELLANEOUS CHEMICAL PROD-----	6	6	-----	-----	-----	-----	-----
2911 GASOLINE-----	44,264	-----	44,264	-----	-----	-----	-----
2912 JET FUEL-----	2,175	-----	2,175	-----	-----	-----	-----
2914 DISTILLATE FUEL OIL-----	58,297	-----	58,297	-----	-----	-----	-----
2915 RESIDUAL FUEL OIL-----	6,400	-----	6,400	-----	-----	-----	-----
2991 PETROLEUM AND COAL PROD, NEC-----	81,505	-----	-----	73,511	7,994	-----	-----
3011 RUBBER AND MISC PLASTIC PROD-----	14	13	1	-----	-----	-----	-----
3111 LEATHER AND LEATHER PRODUCTS-----	6	6	-----	-----	-----	-----	-----
3241 BUILDING CEMENT-----	39	39	-----	-----	-----	-----	-----
3251 STRUCTURAL CLAY PRODUCTS-----	24	24	-----	-----	-----	-----	-----
3281 CUT STONE AND STONE PRODUCTS-----	37	37	-----	-----	-----	-----	-----
3291 MISC NONMETALLIC MINERAL PROD-----	75	44	31	-----	-----	-----	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	3,743	3,743	-----	-----	-----	-----	-----
3317 IRON AND STEEL PIPE AND TUBE-----	4,472	1,972	-----	1,000	1,500	-----	-----
3319 IRON AND STEEL PRODUCTS, NEC-----	20	20	-----	-----	-----	-----	-----
3324 ALUMINUM AND ALLOYS, UNWORKED-----	34	34	-----	-----	-----	-----	-----
3411 FABRICATED METAL PRODUCTS-----	48	35	13	-----	-----	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	18	11	7	-----	-----	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	27	12	1	14	-----	-----	-----
3731 SHIPS AND BOATS-----	15	15	-----	-----	-----	-----	-----
3811 INSTN, TIME, PHOTO, OPT GOODS-----	1	-----	1	-----	-----	-----	-----
3911 MISC MANUFACTURED PRODUCT-----	3	3	-----	-----	-----	-----	-----
4112 COMMODITIES, NEC-----	3,381	3	3,355	-----	23	-----	-----
TOTAL TON-MILES, 75,991,792,							

## COOS AND MILLICOMA RIVERS, OREG.

SECTION INCLUDED: MOUTH OF COOS RIVER TO ALLEGANY ON MILLICOMA RIVER (NORTH FORK), MILE 13.8 AND TO MILE 14 ON SOUTH FORK, CONTROLLING AND PROJECT DEPTHS: 5 FEET FROM MOUTH OF COOS RIVER TO ALLEGANY ON MILLICOMA RIVER AND DELLWOOD ON SOUTH FORK; THENCE 3 FEET TO MILE 14.7 ON SOUTH FORK.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977-----	1,829,933	1982-----	1,956,600
1978-----	2,312,221	1983-----	1,517,628
1979-----	1,413,070	1984-----	1,407,450
1980-----	1,530,746	1985-----	1,465,475
1981-----	1,457,784	1986-----	1,144,348

## PORTLAND, OR, DISTRICT

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COOS AND WILLICOMA RIVERS, OREG.--CONTINUED

FREIGHT TRAFFIC, 1986

DOMESTIC

(SHORT TONS)

COMMODITY	INTERNAL
	OUTBOUND
2412 RAFTED LOGS-----	1,144,548
TOTAL TON-MILES, 6,681,572.	

UMPQUA RIVER, OREG.

SECTION INCLUDED: ENTRANCE TO REEDSPORT, A DISTANCE OF ABOUT 12 MILES. (SAME SECTION AND STATISTICS APPLY TO PORT OF UMPQUA.) CONTROLLING DEPTH: 23 FEET ON THE BAR, 24 FEET FROM ENTRANCE TO MILE 3, 19 FEET MILE 3 TO 6, 18 FEET MILE 6 TO 12 AND 22 FEET IN TURNING BASIN. PROJECT DEPTH: ENTRANCE 26 FEET AND 22 FEET FROM MOUTH TO REEDSPORT WITH A TURNING BASIN AT REEDSPORT; A SIDE CHANNEL AND MOORING AND TURNING BASIN 12 FEET DEEP AT WINCHESTER BAY; A CHANNEL 22 FEET DEEP WITH TURNING BASIN AT GARDINER.

COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1977-----	648,721	68,639	717,560	1982-----	665,567	-----	665,567
1978-----	586,341	19,269	605,610	1983-----	133,122	14,400	147,522
1979-----	820,595	219	820,814	1984-----	193,232	88,650	281,882
1980-----	969,484	40,662	1,010,646	1985-----	223,639	19,725	243,364
1981-----	340,900	35,456	376,356	1986-----	241,450	27,900	269,350

FREIGHT TRAFFIC, 1986

DOMESTIC

(SHORT TONS)

COMMODITY	TOTAL	COASTWISE		INTERNAL		
		RECEIPTS	SHIPMENTS	INBOUND	UPBOUND	DOWNBOUND
TOTAL-----	269,350	11,500	58,514	27,254	101,571	70,511
0911 FRESH FISH, EXCEPT SHELLFISH-----	534	-----	-----	534	-----	-----
0912 SHELLFISH, EXCEPT PREPARED-----	20	-----	-----	20	-----	-----
1442 SAND, GRAVEL, CRUSHED ROCK-----	201,719	-----	49,737	-----	101,571	50,411
2412 RAFTED LOGS-----	27,900	-----	-----	26,700	-----	1,200
2421 LUMBER-----	6,777	-----	6,777	-----	-----	-----
2915 RESIDUAL FUEL OIL-----	11,500	11,500	-----	-----	-----	-----
4029 WASTE AND SCRAP, NEC-----	18,900	-----	-----	-----	-----	18,900
TOTAL TON-MILES, 2,771,207.						

YAQUINA BAY AND HARBOR, OREG.

SECTION INCLUDED: ENTRANCE AND BAY TO TOWN OF YAQUINA, OREG., A DISTANCE OF ABOUT 4.5 MILES. CONTROLLING DEPTH: 37 FEET AT ENTRANCE, THENCE 28 FEET TO AND IN THE TURNING BASIN. PROJECT DEPTH: 40/50 FEET THROUGH ENTRANCE CHANNEL, 30 FEET FROM END OF ENTRANCE CHANNEL TO MCLEAN POINT, 30 FEET IN TURNING BASIN, AND 18 FEET FROM TURNING BASIN TO TOWN OF YAQUINA.

COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1977-----	165,178	-----	165,178	1982-----	404,336	-----	404,336
1978-----	263,113	-----	263,113	1983-----	602,154	-----	602,154
1979-----	156,792	-----	156,792	1984-----	2,269,377	-----	2,269,377
1980-----	126,513	-----	126,513	1985-----	211,142	-----	211,142
1981-----	69,007	-----	69,007	1986-----	301,340	-----	301,340

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN	DOMESTIC		
			EXPORTS	COASTWISE	INTERNAL
				SHIPMENTS	THROUGH
				DOWNSOUND	DOWNSOUND
TOTAL-----	301,340	185,312	90,109	13,233	12,686
0911 FRESH FISH, EXCEPT SHELLFISH-----	8,756	-----	-----	-----	8,756
0912 SHELLFISH, EXCEPT PREPARED-----	3,930	-----	-----	-----	3,930
2411 LOGS-----	181,663	181,663	-----	-----	-----
2421 LUMBER-----	100,107	3,649	90,109	6,349	6,349
2991 PETROLEUM AND COAL PROD, NEC-----	6,886	-----	-----	6,886	6,886
TOTAL TON-MILES, 637,305.					

## Waterborne Commerce of the United States, 1986

## OTHER HARBORS AND WATERWAYS

HARBOR OR WATERWAY	COMMODITY	TONS	TOTAL TON- MILES	PASSENGERS
<b>PROJECT</b>				
ALSEA BAY AND RIVER, OREG.	NO COMMERCE REPORTED			
CHEMCO RIVER, OREG.	0911 FRESH FISH, EXCEPT SHELLFISH----- 0912 SHELLFISH, EXCEPT PREPARED----- 2421 LUMBER-----	1,532 706 25,451	----- ----- -----	-----
	TOTAL-----	27,689	27,689	-----
CHINOOK CHANNEL, WASH.	0911 FRESH FISH, EXCEPT SHELLFISH----- 0912 SHELLFISH, EXCEPT PREPARED----- 4029 WASTE AND SCRAP, NEC-----	2,241 1,092 18,000	----- ----- -----	-----
	TOTAL-----	21,333	21,333	-----
CLATSOPIANA RIVER, OREG.	2412 RAFTED LOGS-----	2,044	8,176	-----
COLUMBIA RIVER AT BAKERS BAY, WASH.	0911 FRESH FISH, EXCEPT SHELLFISH----- 0912 SHELLFISH, EXCEPT PREPARED----- 4029 WASTE AND SCRAP, NEC-----	4,657 2,176 18,000	----- ----- -----	-----
	TOTAL-----	24,835	52,175	-----
COLUMBIA SLOUGH, OREG.	NO COMMERCE REPORTED			
COQUILLE RIVER, OREG.	0911 FRESH FISH, EXCEPT SHELLFISH----- 0912 SHELLFISH, EXCEPT PREPARED-----	115 15	----- -----	-----
	TOTAL-----	130	-----	-----
COOS RIVER, WASH.	0911 FRESH FISH, EXCEPT SHELLFISH-----	420	2,100	-----
DEEP RIVER, WASH.	2412 RAFTED LOGS----- 4029 WASTE AND SCRAP, NEC-----	153,731 300	----- -----	-----
	TOTAL-----	154,031	530,174	-----
DEPOE BAY, OREG.	0911 FRESH FISH, EXCEPT SHELLFISH-----	289	289	-----
ELOKOMIN SLOUGH, WASH.	NO COMMERCE REPORTED			
GRAYS RIVER, WASH.	NO COMMERCE REPORTED			
LAKE RIVER, WASH.	0911 FRESH FISH, EXCEPT SHELLFISH-----	33	66	-----
LEWIS RIVER, WASH.	1402 SAND, GRAVEL, CRUSHED ROCK----- 2412 RAFTED LOGS-----	3,710 155,064	----- -----	-----
	TOTAL-----	158,794	1,086,071	-----
PORT OF ST. HELENS, OREG.	1402 SAND, GRAVEL, CRUSHED ROCK----- 2416 WOOD CHIPS, STAVES, MOLDINGS----- 2915 RESIDUAL FUEL OIL-----	3,710 2,500 595	----- ----- -----	-----
	TOTAL-----	6,805	-----	-----
PORT OF TACOMA, OREG.	0911 FRESH FISH, EXCEPT SHELLFISH----- 0912 SHELLFISH, EXCEPT PREPARED-----	648 66	----- -----	-----
	TOTAL-----	714	-----	-----
ROGUE RIVER, OREG.	0911 FRESH FISH, EXCEPT SHELLFISH-----	47	-----	67,620
SUSTRAN RIVER, OREG.	0911 FRESH FISH, EXCEPT SHELLFISH----- 0912 SHELLFISH, EXCEPT PREPARED----- 2412 RAFTED LOGS-----	399 1 60,105	----- ----- -----	-----
	TOTAL-----	64,505	201,240	-----
SKAMOKAWA (STEAMBOAT) SLOUGH, WASH.	NO COMMERCE REPORTED			
SKAMOKAWA CREEK, WASH.	NO COMMERCE REPORTED			
SKIPANON CHANNEL, OREG.	2412 RAFTED LOGS----- 2416 WOOD CHIPS, STAVES, MOLDINGS----- 2421 LUMBER----- 2691 PULP AND PAPER PRODUCTS, NEC-----	28,620 66,000 21,094 842	----- ----- ----- -----	-----
	TOTAL-----	116,156	116,156	-----
SMITH RIVER, OREG.	2412 RAFTED LOGS----- 2421 LUMBER-----	26,700 8,121	----- -----	-----
	TOTAL-----	34,821	542,121	-----
TILLAMOOK BAY AND BAR, OREG.	0911 FRESH FISH, EXCEPT SHELLFISH----- 0912 SHELLFISH, EXCEPT PREPARED-----	569 2,222	----- -----	-----
	TOTAL-----	2,791	22,328	-----
WESTPORT SLOUGH, OREG.	-----	-----	-----	23,474
YACQUINA RIVER, OREG.	2421 LUMBER----- 2991 PETROLEUM AND COAL PROD, NEC-----	6,349 6,884	----- -----	-----
	TOTAL-----	13,233	132,530	-----
YOUNGS BAY AND YOUNGS RIVER, OREG.	2412 RAFTED LOGS-----	177,114	610,247	-----

# SEATTLE, WA, DISTRICT

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## GRAYS HARBOR AND CHEHALIS RIVER, WASH.

SECTION INCLUDED: GRAYS HARBOR BAR CHANNEL AND CHEHALIS RIVER TO COSMOPOLIS AND EXTENDING TO SIMPSON AVENUE BRIDGE ON THE HOQUAIM RIVER AND THE SCHAFER BROS. WHARF AT MONTESANO ON THE CHEHALIS RIVER, CONTROLLING DEPTHS: BAR CHANNEL, 37.1 FEET; 28.7 FEET FROM DEEP WATER IN LOWER HARBOR TO UPPER CROSS-OVER; 28.6 FEET FROM UPPER CROSS-OVER TO COW POINT; 25.3 FEET FROM COW POINT TO COSMOPOLIS; TURNING BASIN JUST DOWNSTREAM OF U.P.R.R. BRIDGE, 23.9 FEET; TURNING BASIN NEAR COSMOPOLIS, 26.6 FEET; 5.5 FEET FROM COSMOPOLIS TO MONTESANO; BAY CITY CHANNEL, 9.1 FEET; WESTHAVEN CHANNEL, 13.9 FEET NORTH ENTRANCE, 13.0 FEET SOUTH ENTRANCE. PROJECT DEPTHS: 30 FEET EXTENDING THROUGH THE BAR CHANNEL TO COSMOPOLIS; BAY 16 FEET TO MONTESANO; BAY CITY CHANNEL, 14 FEET; WESTHAVEN CHANNEL, 16 FEET. ALL DEPTHS REFER TO MLLW.

### COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1977-----	2,558,704	87,488	2,646,192	1982-----	3,267,640	4,995	3,272,635
1978-----	3,081,953	-----	3,081,953	1983-----	3,552,799	11,903	3,560,702
1979-----	5,005,916	124,627	5,130,743	1984-----	3,378,268	-----	3,378,268
1980-----	3,240,061	8,899	3,248,960	1985-----	6,355,861	-----	6,355,861
1981-----	3,160,804	-----	3,160,804	1986-----	4,578,513	1,100	4,579,613

\* PASSENGERS--16,784.

### FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN			DOMESTIC		
		IMPORTS	EXPORTS	COASTWISE		INTERNAL	LOCAL
				RECEIPTS	SHIPMENTS		
TOTAL-----	4,579,613	4,553	2,717,724	16,698	88,571	12,761	1,315,776
0131 FRESH FRUITS-----	2	-----	2	-----	-----	-----	-----
0141 FRESH AND FROZEN VEGETABLES-----	34	-----	34	-----	-----	-----	-----
0911 FRESH FISH, EXCEPT SHELLFISH-----	6,340	-----	-----	-----	6,340	-----	-----
0912 SHELLFISH, EXCEPT PREPARED-----	5,863	-----	-----	-----	5,863	-----	-----
1442 SAND, GRAVEL, CRUSHED ROCK-----	75,000	-----	-----	-----	-----	75,000	-----
2039 PREP FRUIT AND VEG JUICE, NEC-----	2	-----	2	-----	-----	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	11	-----	11	-----	-----	-----	-----
2311 APPAREL-----	21	-----	21	-----	-----	-----	-----
2411 LOGS-----	2,631,394	-----	2,631,394	-----	-----	-----	-----
2412 RAFTED LOGS-----	1,100	-----	-----	-----	550	-----	550
2416 WOOD CHIPS, STAVES, MOLDINGS-----	73,709	-----	73,709	-----	-----	-----	-----
2421 LUMBER-----	74,697	-----	6,177	-----	68,720	-----	-----
2711 PRINTED MATTER-----	2	-----	2	-----	-----	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	6,031	-----	6,031	-----	-----	-----	-----
2861 GUM AND WOOD CHEMICALS-----	11,910	-----	-----	11,910	-----	-----	-----
2912 DISTILLATE FUEL OIL-----	2,654	-----	-----	2,156	-----	-----	498
2915 RESIDUAL FUEL OIL-----	40,374	-----	-----	6,888	-----	-----	33,486
2916 ASPHALT, TAR, AND PITCHES-----	2,259	-----	-----	-----	-----	-----	-----
2991 PETROLEUM AND COAL PROD, NEC-----	15,135	-----	-----	7,200	7,935	-----	-----
3011 RUBBER AND MISC PLASTIC PROD-----	15	-----	15	-----	-----	-----	-----
3251 STRUCTURAL CLAY PRODUCTS-----	16	-----	16	-----	-----	-----	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	2,020	2,026	-----	-----	-----	-----	-----
3317 IRON AND STEEL PIPE AND TUBE-----	146	146	-----	-----	-----	-----	-----
3324 ALUMINUM AND ALLOYS, UNWORKED-----	3	-----	3	-----	-----	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	9	-----	9	-----	-----	-----	-----
3611 ELECTRICAL MACH AND EQUIP-----	19	19	-----	-----	-----	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	305	25	280	-----	-----	-----	-----
3791 MISC TRANSPORTATION EQUIPMENT-----	44	-----	44	-----	-----	-----	-----
4011 MISC MANUFACTURED PRODUCTS-----	1	1	-----	-----	-----	-----	-----
4029 WASTE AND SCRAP, NEC-----	1,630,220	-----	-----	850	-----	1,315,776	314,000
4112 COMMODITIES, NEC-----	51	-----	51	-----	-----	-----	-----
TOTAL TON-MILES, 75,284,588.							

## PORT ANGELES HARBOR, WASH.

SECTION INCLUDED: ENTIRE HARBOR FROM RAYONIER, INC. WHARF WESTWARD. CONTROLLING DEPTHS: UNLIMITED EXCEPT FOR 25 FEET NEAR RAYONIER, INC. WHARF. ALL DEPTHS REFER TO MLLW.

### COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1977-----	2,854,789	428,223	3,283,012	1982-----	1,738,660	72,625	1,811,485
1978-----	4,029,194	838,891	4,868,085	1983-----	1,928,533	157,525	2,085,658
1979-----	3,969,021	1,875,249	5,844,270	1984-----	2,521,980	120,752	2,642,732
1980-----	3,572,160	705,537	4,277,697	1985-----	2,699,288	227,519	2,926,807
1981-----	1,795,068	179,915	1,974,983	1986-----	3,092,434	217,410	3,309,844

## Waterborne Commerce of the United States, 1986

PORT ANGELES HARBOR, WASH.--CONTINUED

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC INTERNAL		LOCAL	
		IMPORTS	EXPORTS	COASTWISE	RECEIPTS		
		SHIPMENTS	SHIPMENTS				
TOTAL-----	3,309,848	176,350	2,311,987	4,675	341,228	259,100	216,308
0101 COTTON, RAW-----	20		20				
0103 CORN-----	318		318				
0111 SOYBEANS-----	390		390				
0119 OILSEEDS, NEC-----	81		81				
0129 FIELD CROPS, NEC-----	54	1	53				
0131 FRESH FRUITS-----	731		731				
0132 BANANAS AND PLANTAINS-----	511		511				
0141 FRESH AND FROZEN VEGETABLES-----	931		931				
0161 ANIMALS AND PRODUCTS, NEC-----	9	9					
0191 MISCELLANEOUS FARM PRODUCTS-----	5	1	2				
0911 FRESH FISH, EXCEPT SHELLFISH-----	2,104		101		2,003		
0912 SHELLFISH, EXCEPT PREPARED-----	714				714		
1051 ALUMINUM ORES, CONCENTRATES-----	39,146	39,146					
1411 LIMESTONE-----	4,500	4,500					
1442 SAND, GRAVEL, CRUSHED ROCK-----	5,334	3,334	2,000				
1499 NONMETALLIC MINERALS, NEC-----	37		37				
2011 MEAT, FRESH, CHILLED, FROZEN-----	309		309				
2015 ANIMAL BY-PRODUCTS, NEC-----	391		391				
2031 FISH AND SHELLFISH, PREPARED-----	126	95	33				
2034 VEGETABLES AND PREP, NEC-----	128	97	31				
2039 PREP FRUIT AND VEG JUICE, NEC-----	313		313				
2042 ANIMAL FEEDS-----	438		438				
2049 GRAIN MILL PRODUCTS, NEC-----	1,513		1,513				
2081 ALCOHOLIC BEVERAGES-----	466	266	200				
2091 VEGETABLE OILS, MARG, SHORT-----	2		2				
2099 MISCELLANEOUS FOOD PRODUCTS-----	177	88	89				
2111 TOBACCO MANUFACTURES-----	2	2					
2211 BASIC TEXTILE PRODUCTS-----	30	27	3				
2311 APPAREL-----	1		1				
2411 LOGS-----	2,039,332	2,959	2,036,373				
2412 RAFTED LOGS-----	217,610			62,240	134,901	20,269	
2413 FUEL WOOD, CHARCOAL, WASTES-----	626	408		418			
2416 WOOD CHIPS, STAVES, HOLDINGS-----	382,647	121,656	208,183				
2421 LUMBER-----	12,977		12,977				
2431 VENEER, PLYWOOD, WORKED WOOD-----	1,405		1,405				
2491 WOOD MANUFACTURES, NEC-----	1,136		1,136				
2511 FURNITURE AND FIXTURES-----	21	21					
2611 PULP-----	141,639	864	31,046			109,729	
2621 STANDARD NEWSPRINT PAPER-----	1,004		1,004				
2631 PAPER AND PAPERBOARD-----	3,988	66	959	207	2,756		
2691 PULP AND PAPER PRODUCTS, NEC-----	45	14	31				
2711 PRINTED MATTER-----	2		2				
2810 SODIUM HYDROXIDE-----	36,607			36,607			
2819 BASIC CHEMICALS AND PROD, NEC-----	93	85	8				
2821 PLASTIC MATERIALS-----	76	18	58				
2841 SOAP-----	3,614		3,614				
2851 PAINTS-----	106	105	1				
2879 FERTILIZER AND MATERIALS, NEC-----	3		3				
2891 MISCELLANEOUS CHEMICAL PROD-----	10,533	22	46	10,465			
2911 GASOLINE-----	6,260			6,260			
2914 DISTILLATE FUEL OIL-----	20,328	1,716	3,522		15,090		
2915 RESIDUAL FUEL OIL-----	352,205			4,875	192,385	154,945	
2916 LUBRICATING OILS AND GREASES-----	164				164		
2917 NAPHTHA, PETROLEUM SOLVENTS-----	27		27				
2991 PETROLEUM AND COAL PROD, NEC-----	9,000				9,000		
3011 RUBBER AND MISC PLASTIC PRODUCTS-----	36	21	15				
3111 LEATHER AND LEATHER PRODUCTS-----	29		29				
3211 GLASS AND GLASS PRODUCTS-----	6	5	1				
3241 BUILDING CEMENT-----	5,747	76			5,671		
3251 STRUCTURAL CLAY PRODUCTS-----	24	24					
3291 MISC NONMETALLIC MINERAL PROD-----	61		61				
3315 IRON, STEEL SHAPES, EXC SHEET-----	166	166					
3319 IRON AND STEEL PRODUCTS, NEC-----	29	29					
3321 NONFERROUS METALS, NEC-----	1		1				
3322 COPPER ALLOYS, UNWORKED-----	24		24				
3323 LEAD AND ZINC, UNWORKED-----	54		54				
3324 ALUMINUM AND ALLOYS, UNWORKED-----	237	8	229				
3411 FABRICATED METAL PRODUCTS-----	154	105	49				
3511 MACHINERY, EXCEPT ELECTRICAL-----	153	98	55				
3611 ELECTRICAL MACH AND EQUIP-----	455	213	242				
3711 MOTOR VEHICLES, PARTS, EQUIP-----	67	61	6				
3791 MISC TRANSPORTATION EQUIPMENT-----	7		7				
3911 MISC MANUFACTURED PRODUCTS-----	46	46					
4012 NONFERROUS METAL SCRAP-----	496		496				
4022 TEXTILE WASTE, SCRAP, SHEEP-----	10		10				
4024 PAPER WASTE AND SCRAP-----	437		437				
4112 COMMODITIES, NEC-----	924		924				
9999 DEPARTMENT OF DEFENSE AND SCI-----	14		14				

## SEATTLE, WA, DISTRICT

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## PORT TOWNSEND HARBOR, WASH.

SECTION INCLUDED: POINT NELSON ON THE NORTH TO IRONDALE ON THE SOUTH. CONTROLLING DEPTHS: CHANNEL FROM DEEP WATER TO BOAT BASIN, 6.9 FEET; OUTER PORTION OF ENTRANCE CHANNEL IN BOAT BASIN, 11.3 FEET; INNER PORTION OF ENTRANCE CHANNEL IN BOAT BASIN, 11.8 FEET; PROJECT DEPTHS: 10 AND 12 FEET MLLW IN THE INNER AND OUTER SECTIONS OF THE MOORING BASIN, RESPECTIVELY.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS	YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS
1977-----	1,262,736	-----	1,262,736	180,530	1982-----	764,139	-----	764,139	488,286
1978-----	680,737	-----	680,737	200,734	1983-----	558,213	1,050	559,263	303,165
1979-----	534,061	-----	534,061	739,362	1984-----	689,160	-----	689,160	520,185
1980-----	701,267	-----	701,267	254,672	1985-----	498,869	-----	498,869	516,465
1981-----	663,937	-----	663,937	296,302	1986-----	526,359	8,387	534,746	584,244

## ADDITIONAL TRAFFIC

YEAR	TONS	CAR FERRY- RAILROAD CARS			YEAR	TONS	CAR FERRY- RAILROAD CARS			GENERAL FERRY
		EMPTY	LOADED	TOTAL			EMPTY	LOADED	TOTAL	
1977-----	**	-----	-----	*	132,986	180,530	1982-----	**	-----	202,248 488,286
1978-----	**	-----	-----	*	150,666	200,734	1983-----	**	-----	211,015 303,165
1979-----	**	-----	-----	*	555,443	739,362	1984-----	**	-----	219,371 520,185
1980-----	**	-----	-----	*	200,734	254,672	1985-----	**	-----	223,486 516,465
1981-----	**	-----	-----	*	216,952	296,302	1986-----	**	-----	252,942 331,302

\* CARGO REPORTED AS FREIGHT TRAFFIC.

\*\* NOT REPORTED.

## FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC	
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS
TOTAL-----	534,746	264,406	28,910	203,967	37,463
0129 FIELD CROPS, NEC-----	11	-----	11	-----	-----
0133 COFFEE-----	39	39	-----	-----	-----
0141 FRESH AND FROZEN VEGETABLES-----	509	-----	509	-----	-----
0911 FRESH FISH, EXCEPT SHELLFISH-----	375	-----	95	280	-----
0912 SHELLFISH, EXCEPT PREPARED-----	390	-----	-----	394	-----
1442 SAND, GRAVEL, CRUSHED ROCK-----	5,006	-----	5,000	-----	-----
2015 ANIMAL BY-PRODUCTS, NEC-----	79	-----	79	-----	-----
2031 FISH AND SHELLFISH, PREPARED-----	96	-----	96	-----	-----
2034 VEGETABLES AND PREP, NEC-----	41	-----	41	-----	-----
2039 PREP FRUIT AND VEG JUICE, NEC-----	17	-----	17	-----	-----
2042 ANIMAL FEEDS-----	190	-----	190	-----	-----
2081 ALCOHOLIC BEVERAGES-----	440	-----	440	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	81	-----	81	-----	-----
2412 RAFTED LOGS-----	8,387	-----	-----	6,787	1,600
2413 FUEL WOOD, CHARCOAL, WASTES-----	75,684	35,718	-----	39,966	-----
2414 TIMBER, POSTS, POLES, PILING-----	10	-----	10	-----	-----
2416 WOOD CHIPS, STAVES, HOLDINGS-----	304,813	226,603	4,584	73,626	-----
2431 VENEER, PLYWOOD, WORKED WOOD-----	18	-----	18	-----	-----
2611 PULP-----	34,885	-----	15,004	-----	19,881
2621 STANDARD NEWSPRINT PAPER-----	245	-----	295	-----	-----
2631 PAPER AND PAPERBOARD-----	16,679	-----	707	-----	15,972
2691 PULP AND PAPER PRODUCTS, NEC-----	10	-----	10	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	6	-----	6	-----	-----
2841 SOAP-----	17	-----	17	-----	-----
2861 GUM AND WOOD CHEMICALS-----	50,395	-----	-----	50,395	-----
2891 MISCELLANEOUS CHEMICAL PROD-----	861	-----	861	-----	-----
2911 GASOLINE-----	1,738	-----	-----	1,738	-----
2914 DISTILLATE FUEL OIL-----	3,642	-----	-----	3,642	-----
2915 RESIDUAL FUEL OIL-----	22,839	-----	-----	22,839	-----
2916 LUBRICATING OILS AND GREASES-----	57	-----	67	-----	-----
2991 PETROLEUM AND COAL PROD, NEC-----	4,223	-----	-----	4,223	-----
3211 GLASS AND GLASS PRODUCTS-----	52	-----	52	-----	-----
3251 STRUCTURAL CLAY PRODUCTS-----	73	46	27	-----	-----
3291 MISC NONMETALLIC MINERAL PROD-----	147	-----	147	-----	-----
3321 NONFERROUS METALS, NEC-----	5	-----	5	-----	-----
3411 FABRICATED METAL PRODUCTS-----	20	-----	20	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	3	-----	3	-----	-----
3731 SHIPS AND BOATS-----	3	-----	3	-----	-----
3791 MISCELLANEOUS TRANSPORTATION EQUIPMENT-----	1	-----	1	-----	-----
4011 IRON AND STEEL SCRAP-----	2,226	2,000	216	-----	10
4012 NONFERROUS METAL SCRAP-----	363	-----	-----	363	-----
4112 COMMODITIES, NEC-----	8	-----	8	-----	-----
9999 DEPARTMENT OF DEFENSE AND SCI-----	4	-----	4	-----	-----

*Waterborne Commerce of the United States, 1986*

## PORT GAMBLE HARBOR, WASH.

SECTION INCLUDED: ENTRANCE CHANNEL AND PORT GAMBLE HARBOR. CONTROLLING DEPTHS: 25.1 FEET AT MLLW. PROJECT DEPTHS: 28 FEET AT MLLW.

## COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1977-----	418,610	182,402	601,012	1982-----	303,056	228,420	532,276
1978-----	293,550	208,968	502,518	1983-----	328,370	247,457	575,827
1979-----	190,235	221,292	411,527	1984-----	358,066	419,391	777,457
1980-----	363,884	251,360	615,244	1985-----	390,183	273,129	663,312
1981-----	373,476	279,277	652,753	1986-----	307,470	343,174	650,649

## FREIGHT TRAFFIC, 1986

DOMESTIC

(SHORT TONS)

COMMODITY	TOTAL	COASTWISE		INTERNAL	
		SHIPMENTS	RECEIPTS	SHIPMENTS	SHIPMENTS
TOTAL-----	650,648	152,918	331,444	166,282	
1442 SAND, GRAVEL, CRUSHED ROCK-----	550		550		
2412 RAFTED LOGS-----	343,174		330,794	12,380	
2413 FUELWOOD, CHARCOAL, WASTES-----	42,905			42,905	
2416 WOOD CHIPS, STAVES, HOLDINGS-----	110,997			110,997	
2421 LUMBER-----	152,918	152,918			
3411 FABRICATED METAL PRODUCTS-----	100		100	100	

## HAMMERSLEY INLET, WASH.

SECTION INCLUDED: INLET CONNECTING PUGET SOUND WITH SMELTON HARBOR, A DISTANCE OF ABOUT 7 MILES. CONTROLLING DEPTHS: 8.6 FEET. PROJECT DEPTHS: 13 FEET. ALL DEPTHS REFER TO MLLW.

## COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1977-----	338,478	735,303	1,073,781	1982-----	221,413	789,020	1,010,433
1978-----	302,539	902,996	1,205,535	1983-----	228,339	847,582	1,075,921
1979-----	149,242	886,802	1,036,044	1984-----	193,706	807,975	1,001,681
1980-----	211,533	935,585	1,147,198	1985-----	146,564	352,898	501,458
1981-----	227,306	881,909	1,109,215	1986-----	133,578	232,274	365,852

## FREIGHT TRAFFIC, 1986

DOMESTIC

(SHORT TONS)

COMMODITY	TOTAL	INTERNAL	
		INBOUND	OUTBOUND
TOTAL-----	365,852	2,658	363,198
0911 FRESH FISH, EXCEPT SHELLFISH-----	121	121	
0912 SHELLFISH, EXCEPT PREPARED-----	908	908	
2412 RAFTED LOGS-----	232,274	1,625	230,669
2416 WOOD CHIPS, STAVES, HOLDINGS-----	132,590		132,590

## OLYMPIA HARBOR, WASH.

SECTION INCLUDED: THAT PORTION OF BUDD INLET SOUTH AND WEST OF PRIEST POINT AND GENERALLY WITHIN THE CITY LIMITS OF OLYMPIA. CONTROLLING DEPTHS: 29.7 FEET IN OUTER CHANNEL, 31.3 FEET IN ENTRANCE CHANNEL AND 28.4 FEET IN TURNING BASIN. PROJECT DEPTHS: 30 FEET. ALL DEPTHS REFER TO MLLW.

## COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1977-----	446,598	89,864	536,458	1982-----	308,241	106,179	494,420
1978-----	566,001	303,489	669,490	1983-----	236,832	176,099	415,331
1979-----	607,642	186,188	793,830	1984-----	503,192	316,397	821,589
1980-----	589,687	131,312	720,999	1985-----	479,033	126,550	605,583
1981-----	361,974	461,346	823,320	1986-----	312,140	886,370	1,198,510

\* PASSENGERS--752.

## SEATTLE, WA., DISTRICT

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OLYMPIA HARBOR, WASH.--CONTINUED

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		LOCAL
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	
TOTAL-----	1,198,510	6,580	298,726	117,810	168,317	607,073
0911 FRESH FISH, EXCEPT SHELLFISH-----	426	-----	-----	426	-----	-----
0912 SHELLFISH, EXCEPT PREPARED-----	139	-----	13	126	-----	-----
2311 APPAREL-----	3	3	-----	-----	-----	-----
2411 LOGS-----	296,715	-----	296,713	-----	-----	-----
2412 RAFTED LOGS-----	866,370	-----	-----	110,980	168,317	607,073
2914 DISTILLATE FUEL OIL-----	816	-----	-----	816	-----	-----
2915 RESIDUAL FUEL OIL-----	5,662	-----	-----	5,662	-----	-----
3291 VISC NONMETALLIC MINERAL PROD-----	3,650	3,854	-----	-----	-----	-----
3317 IRON AND STEEL PIPE AND TUBE-----	2,723	2,723	-----	-----	-----	-----

TACOMA HARBOR, WASH.

SECTION INCLUDED: ALL OF COMMENCEMENT BAY AND TRIBUTARY WATERWAYS EAST OF A LINE EXTENDING FROM BROWN POINT TO AND INCLUDING THE HARVEYS OF THE TACOMA SHELTER. CONTROLLING DEPTHS: CITY WATERWAY, 20.9 TO 16.2 FEET; MYLEBOS WATERWAY, 23.4 FEET; LEAST DEPTH IN TURNING BASIN 29.2 FEET; BLAIR (PORT INDUSTRIAL WATERWAY), 32.8 FEET. PROJECT DEPTHS: CITY WATERWAY, 29 TO 19 FEET; MYLEBOS WATERWAY, 30 FEET; BLAIR (PORT INDUSTRIAL WATERWAY), 30 TO 35 FEET. ALL DEPTHS REFER TO MLLW.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS	YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS
1977-----	10,381,037	318,300	10,699,337	191,759	1982-----	12,168,282	1,078,657	13,246,939	432,550
1978-----	12,388,337	695,617	13,083,954	179,265	1983-----	13,270,172	1,188,202	14,458,374	226,406
1979-----	14,280,941	911,009	15,192,550	184,909	1984-----	16,062,681	1,320,544	17,383,225	472,546
1980-----	15,879,548	1,282,662	17,162,210	175,592	1985-----	14,703,611	1,090,921	15,794,532	492,064
1981-----	14,194,501	976,263	15,170,704	193,906	1986-----	14,943,610	1,229,678	16,173,088	257,401

## ADDITIONAL TRAFFIC

YEAR	CAR FERRY-RAILROAD CARS			GENERAL FERRY		YEAR	CAR FERRY-RAILROAD CARS			GENERAL FERRY			
	TONS	EMPTY	LOADED	TOTAL	VEHICLES	PASSENGERS	TONS	EMPTY	LOADED	TOTAL	VEHICLES	PASSENGERS	
1977-----	# -----	-----	-----	#	177,984	191,759	1982-----	# -----	-----	-----	#	211,840	432,550
1978-----	# -----	-----	-----	#	206,306	179,265	1983-----	# -----	-----	-----	#	222,278	226,406
1979-----	# -----	-----	-----	#	221,609	184,909	1984-----	# -----	-----	-----	#	233,522	472,546
1980-----	# -----	-----	-----	#	200,840	175,592	1985-----	# -----	-----	-----	#	262,202	492,064
1981-----	# -----	-----	-----	#	228,406	193,906	1986-----	# -----	-----	-----	#	257,618	257,401

\* INCLUDES AUTOMOBILES, TRUCKS, AND TRAILERS.  
 \*\* CARGO REPORTED AS FREIGHT TRAFFIC.  
 # NOT REPORTED.

## FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		LOCAL		
		IMPORTS	EXPORTS	COASTWISE RECEIPTS	INTERNAL SHIPMENTS			
TOTAL-----	16,173,086	3,973,323	6,731,988	1,827,375	883,724	1,560,978	680,923	514,777
0101 COTTON, RAW-----	3,041	-----	3,041	-----	-----	-----	-----	-----
0102 BARLEY AND RYE-----	423,641	404	423,637	-----	-----	-----	-----	-----
0103 CORN-----	1,200,408	-----	1,192,263	-----	8,145	-----	-----	-----
0104 OATS-----	120	-----	120	-----	-----	-----	-----	-----
0105 RICE-----	1,769	1,744	2	-----	23	-----	-----	-----
0106 SORGHUM GRAINS-----	27,393	-----	27,393	-----	-----	-----	-----	-----
0107 WHEAT-----	160,101	-----	160,101	-----	-----	-----	-----	-----
0111 SOYBEANS-----	424,653	-----	424,653	-----	-----	-----	-----	-----
0119 OILSEEDS, NEC-----	469	25	444	-----	-----	-----	-----	-----
0121 TOBACCO, LEAF-----	981	383	598	-----	-----	-----	-----	-----
0129 FIELD CROPS, NEC-----	2,127	1,158	969	-----	-----	-----	-----	-----
0131 FRESH FRUITS-----	53,764	6,241	44,131	-----	3,392	-----	-----	-----
0132 BANANAS AND PLANTAINS-----	783	-----	783	-----	783	-----	-----	-----
0133 COFFEE-----	5,034	3,625	9	-----	-----	-----	-----	-----
0134 COCOA BEANS-----	77	77	-----	-----	-----	-----	-----	-----
0141 FRESH AND FROZEN VEGETABLES-----	51,041	2,053	44,011	-----	3,377	-----	-----	-----
0151 LIVE ANIMALS-----	87	87	-----	-----	-----	-----	-----	-----
0161 ANIMALS AND PRODUCTS, NEC-----	1,950	886	521	-----	543	-----	-----	-----
0191 MISCELLANEOUS FARM PRODUCTS-----	917	394	23	-----	-----	-----	-----	-----
0841 CRUDE RUBBER AND ALLIED GUMS-----	107,010	106,189	821	-----	-----	-----	-----	-----
0861 FOREST PRODUCTS, NEC-----	1,483	1,370	51	-----	54	-----	-----	-----
0911 FRESH FISH, EXCEPT SHELLFISH-----	36,923	3,057	21,413	11,874	-----	777	-----	-----
0912 SHELLFISH, EXCEPT PREPARED-----	7,259	1,602	3,5	1,013	-----	1,477	-----	-----
0931 MARINE SHELLS, UNMANUFACTURED-----	545	57	46	-----	-----	-----	-----	-----
1051 ALUMINUM ORES, CONCENTRATES-----	389,412	389,354	56	-----	-----	-----	-----	-----
1091 NONFERROUS ORES, CONCENTRATES, NEC-----	365,437	365,273	164	-----	-----	-----	-----	-----
1121 COAL AND LIGNITE-----	885	-----	885	-----	-----	-----	-----	-----
1311 CRUDE PETROLEUM-----	1,624,877	-----	6,906	1,617,971	-----	-----	-----	-----

## Waterborne Commerce of the United States, 1986

TACOMA HARBOR, WASH.--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

(SHORT TONS)

COMMODITY	FOREIGN		DOMESTIC				LOCAL
	TOTAL	IMPORTS	COASTWISE		INTERNAL		
			EXPORTS	RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS
1411 LIMESTONE-----	131,785	131,785	-----	-----	-----	342,006	-----
1442 SAND, GRAVEL, CRUSHED ROCK-----	352,639	6,288	4,459	-----	86	342,006	-----
1451 CLAY-----	8,284	-----	8,176	-----	108	-----	-----
1471 PHOSPHATE ROCK-----	33	33	-----	-----	-----	-----	-----
1491 SALT-----	657,854	647,975	9,828	-----	51	-----	-----
1494 GYPSUM, CRUDE AND PLASTERS-----	347,047	346,796	251	-----	-----	-----	-----
1499 NONMETALLIC MINERALS, NEC-----	19,520	1,009	18,447	-----	64	-----	-----
1911 ORDNANCE AND ACCESSORIES-----	326	323	5	-----	-----	-----	-----
2011 MEAT, FRESH, CHILLED, FROZEN-----	36,747	20,668	13,608	-----	2,471	-----	-----
2012 MEAT AND PRODUCTS, NEC-----	1,760	1,533	227	-----	-----	-----	-----
2014 TALLOW, ANIMAL FATS AND OILS-----	57,557	-----	57,557	-----	-----	-----	-----
2015 ANIMAL BY-PRODUCTS, NEC-----	1,977	1	1,976	-----	-----	-----	-----
2021 DAIRY PRODUCTS, NEC-----	9,037	516	515	-----	8,006	-----	-----
2022 DRIED MILK AND CREAM-----	21,103	228	20,875	-----	-----	-----	-----
2031 FISH AND SHELLFISH, PREPARED-----	39,565	12,629	6,222	20,590	124	-----	-----
2034 VEGETABLES AND PREP, NEC-----	7,470	3,277	4,193	-----	-----	-----	-----
2036 PREP FRUIT AND VEG JUICE, NEC-----	38,251	35,804	2,440	-----	7	-----	-----
2041 WHEAT FLOUR AND SEMOLINA-----	14	-----	14	-----	-----	-----	-----
2042 ANIMAL FEEDS-----	73,278	4,637	68,506	-----	135	-----	-----
2049 GRAIN MILL PRODUCTS, NEC-----	4,269	607	3,662	-----	-----	-----	-----
2061 SUGAR-----	76	-----	76	-----	-----	-----	-----
2062 MOLASSES-----	1	1	-----	-----	-----	-----	-----
2081 ALCOHOLIC BEVERAGES-----	6,075	4,499	527	-----	1,049	-----	-----
2091 VEGETABLE OILS, MARG, SHORT-----	1,799	81	1,718	-----	-----	-----	-----
2092 ANIMAL OILS AND FATS, NEC-----	1	1	-----	-----	-----	-----	-----
2093 GROCERIES-----	273,035	-----	3	273,032	-----	-----	-----
2095 ICE-----	73	73	-----	-----	-----	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	34,637	10,014	16,050	-----	8,567	-----	-----
2111 TOBACCO MANUFACTURES-----	7,143	9	6,900	-----	234	-----	-----
2211 BASIC TEXTILE PRODUCTS-----	58,047	56,234	1,800	-----	13	-----	-----
2212 TEXTILE FIBERS, NEC-----	2	2	-----	-----	-----	-----	-----
2311 APPAREL-----	125,519	124,940	296	263	-----	-----	-----
2411 LOGS-----	1,960,291	457	1,959,834	-----	-----	-----	-----
2412 RAFTED LOGS-----	1,229,678	-----	-----	-----	696,397	291,270	242,011
2413 FUEL WOOD, CHARCOAL, WASTES-----	2,129	1,833	249	-----	47	-----	-----
2414 TIMBER, POSTS, POLES, PILING-----	2,122	9	588	-----	22	1,497	6
2416 WOOD CHIPS, STAVES, HOLDINGS-----	839,979	87,750	551,770	-----	-----	198,394	2,065
2421 LUMBER-----	533,134	7,743	502,997	14	22,014	283	83
2431 VENEER, PLYWOOD, WORKED WOOD-----	7,220	4,814	2,385	-----	21	-----	-----
2491 WOOD MANUFACTURES, NEC-----	42,144	16,245	4,747	22	20,814	233	83
2511 FURNITURE AND FIXTURES-----	64,289	43,997	1,575	10,198	8,519	-----	-----
2611 PULP-----	168,439	56	166,983	-----	-----	1,400	-----
2621 STANDARD NEWSPRINT PAPER-----	94,618	20,577	73,991	-----	250	-----	-----
2631 PAPER AND PAPERBOARD-----	108,846	8,950	99,696	-----	-----	-----	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	18,023	3,803	1,365	-----	12,855	-----	-----
2711 PRINTED MATTER-----	13,148	11,647	1,266	-----	235	-----	-----
2810 SODIUM HYDROXIDE-----	148,701	-----	-----	-----	54,810	-----	93,891
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	12,370	562	10	11,779	27	-----	-----
2812 DYES, PIGMENT, TANNING MATS-----	141	-----	141	-----	-----	-----	-----
2813 ALCOHOLS-----	457	63	394	-----	-----	-----	-----
2817 BENZENE AND TOLUENE-----	12	-----	12	-----	-----	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	74,645	7,971	59,301	-----	7,573	-----	-----
2821 PLASTIC MATERIALS-----	79,152	16,859	62,239	-----	54	-----	-----
2822 SYNTHETIC RUBBER-----	13,075	-----	13,075	-----	-----	-----	-----
2823 SYNTHETIC (MAN-MADE) FIBERS-----	1,583	389	1,194	-----	-----	-----	-----
2831 DRUGS-----	2,817	1,350	1,467	-----	-----	-----	-----
2841 SOAP-----	16,531	878	15,456	-----	197	-----	-----
2851 PAINTS-----	4,222	3,304	798	-----	120	-----	-----
2861 GUM AND WOOD CHEMICALS-----	51,410	12	740	-----	40,874	7,529	2,261
2871 NITROGENOUS CHEM FERTILIZERS-----	230	20	203	-----	15	-----	-----
2876 INSECTICIDES, DISINFECTANTS-----	3,188	530	2,658	-----	-----	-----	-----
2891 MISCELLANEOUS CHEMICAL PROD-----	39,902	7,045	6,619	-----	7,298	-----	18,940
2911 GASOLINE-----	207,203	127,623	1	55,095	4,931	7,088	8,769
2912 JET FUEL-----	181,116	-----	5,044	-----	-----	137,723	38,351
2914 DISTILLATE FUEL OIL-----	121,465	-----	6,075	18,320	41,051	10,393	31,449
2915 RESIDUAL FUEL OIL-----	637,685	5,830	-----	16,137	108,770	108,811	149,670
2916 LUBRICATING OILS AND GREASES-----	11,207	51	4,171	-----	6,835	84	66
2917 NAPHTHA, PETROLEUM SOLVENTS-----	1,182	-----	634	-----	43	-----	505
2918 ASPHALT, TAR, AND PITCHES-----	5,012	4,996	1	-----	15	-----	-----
2920 COKE, PETROLEUM COKE-----	45	-----	45	-----	-----	-----	-----
2921 LIQUEFIED GASES-----	25	-----	-----	-----	25	-----	-----
2951 ASPHALT BUILDING MATERIALS-----	233	-----	233	-----	-----	-----	-----
2991 PETROLEUM AND COAL PROD, NEC-----	45,063	-----	63	-----	24,274	13,256	7,470
3111 RUBBER AND MISC PLASTIC PROD-----	75,065	68,396	3,064	3,332	273	-----	-----
3211 LEATHER AND LEATHER PRODUCTS-----	84,761	82,768	1,943	-----	50	-----	-----
3251 STRUCTURAL CLAY PRODUCTS-----	8,949	7,726	1,157	-----	66	-----	-----
3271 LIME-----	3,866	3,501	367	-----	-----	-----	-----
3281 CUT STONE AND STONE PRODUCTS-----	362	-----	362	-----	-----	-----	-----
3291 MISC NONMETALLIC MINERAL PROD-----	1,095	1,076	19	-----	-----	-----	-----
3311 PIPE IRON-----	89,476	42,789	3,251	12	21,346	234	21,044
3314 IRON AND STEEL PRIMARY FORMS-----	5,148	5,148	-----	-----	-----	-----	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	116	-----	-----	-----	116	-----	-----
3316 IRON AND STEEL PLATES, SHEETS-----	29,325	25,432	94	-----	124	-----	3,675
3317 IRON AND STEEL PIPE AND TUBE-----	12,918	1	12,917	-----	-----	-----	-----
3318 FERROALLOYS-----	12,847	9,089	621	805	1,532	-----	600
3319 IRON AND STEEL PRODUCTS, NEC-----	6,564	5,877	687	-----	-----	-----	-----
3321 NONFERROUS METALS, NEC-----	1,065	975	90	-----	-----	-----	-----
3322 COPPER ALLOYS, UNWORKED-----	4,708	3,022	1,686	-----	-----	-----	-----
3323 LEAD AND ZINC, UNWORKED-----	9,273	8,749	524	-----	-----	-----	-----
3324 ALUMINUM AND ALLOYS, UNWORKED-----	21,456	2,781	18,675	-----	-----	-----	-----
3411 FABRICATED METAL PRODUCTS-----	49,525	3,895	45,630	-----	-----	-----	-----
3411 MACHINERY, EXCEPT ELECTRICAL-----	181,547	116,928	7,417	2,387	54,815	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	191,755	131,128	34,190	1,903	24,466	-----	60

## SEATTLE, WA, DISTRICT

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TACOMA HARBOR, WASH.--CONTINUED  
FREIGHT TRAFFIC, 1986--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		LOCAL
		IMPORTS	EXPORTS	COASTWISE	INTERNAL	
		RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS	
3611 ELECTRICAL MACH AND EQUIP-----	248,423	240,176	8,127	120	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	314,058	274,261	18,926	7,476	13,395	-----
3721 AIRCRAFT AND PARTS-----	138	54	46	-----	-----	-----
3731 SHIPS AND BOATS-----	4,195	3,961	187	-----	41	-----
3791 MISCELLANEOUS TRANSPORTATION EQUIPMENT-----	2,200	833	1,354	13	-----	-----
3811 INSTR, TIME, PHOTO, OPT Goods-----	25,187	12,972	10,315	-----	-----	-----
3911 MISCELLANEOUS MANUFACTURED PRODUCTS-----	128,637	125,257	3,284	-----	96	-----
4011 IRON AND STEEL SCRAP-----	374,008	85,119	288,721	168	-----	-----
4012 NONFERROUS METAL SCRAP-----	30,731	47	30,684	-----	-----	-----
4022 TEXTILE WASTE, SCRAP, SWEEP-----	1,576	-----	1,576	-----	-----	-----
4024 PAPER WASTE AND SCRAP-----	83,494	-----	83,474	20	-----	-----
4029 RASPB AND SCRAP, NEC-----	6,526	-----	-----	-----	6,520	-----
4112 COMMODITIES, NEC-----	199,448	30,850	4,493	27,960	136,084	51
4119 EMPTY CONTAINERS-----	15,341	-----	-----	15,167	174	-----
9999 DEPARTMENT OF DEFENSE AND SCI-----	135	-----	133	-----	-----	-----

## SEATTLE HARBOR, WASH.

SECTION INCLUDED FROM UNION OIL DOCK NEAR EDMONDS ON THE NORTH TO FAUNTLEROY FERRY SLIP ON THE SOUTH, INCLUDING ELLIOTT BAY, EAST, WEST, AND DUWAMISH WATERWAY, LAKE WASHINGTON SHIP CANAL, SALMON BAY, LAKE UNION, LAKE WASHINGTON, AND KENMORE NAVIGATION CHANNEL. CONTROLLING DEPTHS: ELLIOTT BAY, UNLIMITED; WEST WATERWAY, 28.1 FEET; EAST WATERWAY, 31.2 FEET; DUWAMISH WATERWAY, 18.2 FEET FROM HEAD OF WEST WATERWAY TO 1ST AVENUE SO., 11.0 FEET FROM 1ST AVENUE SO., 14TH AVENUE SO., 8.5 FEET FROM 14TH AVENUE SO., TO HEAD OF WATERWAY; LAKE WASHINGTON SHIP CANAL, 29.2 FEET BELOW LOCKS; ABOVE THE LOCKS, 26.1 FEET, KENMORE NAVIGATION CHANNELS 13.7 FEET, PROJECT DEPTH: ELLIOT BAY, UNLIMITED; EAST AND WEST WATERWAYS, 34 FEET; DUWAMISH WATERWAY, 30 FEET TO FIRST AVENUE SOUTH; 20 FEET TO 8TH AVENUE SOUTH; AND 15 FEET FROM 8TH AVENUE SOUTH TO HEAD OF WATERWAY; LAKE WASHINGTON SHIP CANAL, 34 FEET BELOW LOCKS; 30 FEET AT LOWER POOL LEVEL, KENMORE NAVIGATION CHANNELS 15 FEET. ALL DEPTHS REFER TO MLLA EXCEPT INSIDE LAKE WASHINGTON SHIP CANAL WHICH REFLECTS LOW LAKE LEVEL.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS	YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS
1977-----	16,060,656	352,220	16,452,876	6,051,503	1982-----	17,665,117	117,051	17,805,188	10,071,567
1978-----	22,137,670	343,795	22,451,665	6,540,219	1983-----	17,467,937	115,073	17,583,410	6,577,344
1979-----	19,791,540	246,890	20,038,430	6,290,453	1984-----	20,269,324	38,580	20,327,874	12,543,416
1980-----	21,106,410	162,426	21,288,538	6,899,602	1985-----	16,026,992	203,021	16,230,013	14,706,012
1981-----	20,320,142	194,412	20,514,554	6,944,579	1986-----	16,326,133	771,605	17,097,938	9,575,907

## ADDITIONAL TRAFFIC

YEAR	TONS	CAR FERRY-RAILROAD CARS			GENERAL FERRY			TONS	CAR FERRY-RAILROAD CARS			GENERAL FERRY		
		EMPTY	LOADED	TOTAL	#VEHICLES	PASSENGERS	EMPTY		EMPTY	LOADED	TOTAL	#VEHICLES	PASSENGERS	
1977-----	**	-----	-----	-----	3,379,812	6,051,503	1982-----	**	-----	-----	-----	3,431,350	10,071,567	-----
1978-----	**	-----	-----	-----	3,704,037	6,540,219	1983-----	**	133	-----	133	3,473,165	6,577,344	-----
1979-----	**	-----	-----	-----	4,566,263	6,290,453	1984-----	**	-----	-----	-----	4,727,621	12,543,416	-----
1980-----	**	-----	-----	-----	5,771,474	6,899,602	1985-----	**	-----	-----	-----	5,909,144	14,706,012	-----
1981-----	**	-----	-----	-----	3,485,863	6,944,579	1986-----	**	-----	-----	-----	6,120,764	9,575,907	-----

\* INCLUDES AUTOMOBILES, TRUCKS, AND TRAILERS.  
\*\* NOT REPORTED.

## FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		LOCAL
		IMPORTS	EXPORTS	COASTWISE	INTERNAL	
		RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS	
TOTAL-----	17,097,938	4,901,232	6,125,603	1,221,058	1,153,548	3,402,586
0101 COTTON, RAW-----	28,728	-----	28,728	-----	-----	-----
0102 BARLEY AND RYE-----	3,287	2,161	1,126	-----	-----	-----
0103 CORN-----	237,270	39	237,231	-----	-----	-----
0104 OATS-----	2,084	-----	2,084	-----	-----	-----
0105 RICE-----	10,190	6,774	1,120	-----	-----	-----
0106 SORGHUM GRAINS-----	396	-----	396	-----	-----	-----
0107 WHEAT-----	179,060	-----	179,060	-----	-----	-----
0111 SOYBEANS-----	161,379	-----	161,379	-----	-----	-----
0112 FLAXSEED-----	115	-----	115	-----	-----	-----
0119 OILSEEDS, NEC-----	19,184	159	19,025	-----	-----	-----
0121 TOBACCO, LEAF-----	892	-----	692	-----	-----	-----
0122 HAY AND FODDER-----	273	-----	273	-----	-----	-----
0129 FIELD CROPS, NEC-----	36,945	1,450	37,495	-----	-----	-----
0131 FRESH FRUITS-----	129,332	23,402	102,265	14	3,651	-----
0132 BANANAS AND PLANTAINS-----	11	11	11	-----	-----	-----
0133 COFFEE-----	5,351	5,265	55	31	-----	-----
0141 FRESH AND FROZEN VEGETABLES-----	103,536	2,611	132,076	46	8,203	-----
0151 LIVE ANIMALS-----	38	38	-----	-----	-----	-----
0161 ANIMALS AND PRODUCTS, NEC-----	12,340	1,749	7,875	2,716	-----	-----
0191 MISCELLANEOUS FARM PRODUCTS-----	2,678	1,148	325	-----	1,205	-----
0841 CRUDE RUBBER AND ALLIED GUMS-----	44	44	-----	-----	-----	-----

## Waterborne Commerce of the United States, 1986

SEATTLE HARBOR, WASH.--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

(SHORT TUNS)

COMMODITY	TOTAL	FOREIGN		COASTWISE		DOMESTIC		LOCAL
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS	
0861 FOREST PRODUCTS, NEC-----	3,676	1,297	1,372	2	1,205	-----	-----	
0911 FRESH FISH, EXCEPT SHELLFISH-----	96,241	5,587	66,981	20,178	986	2,509	-----	
0912 SHELLFISH, EXCEPT PREPARED-----	14,984	8,602	3,795	794	1,403	390	-----	
0931 MARINE SHELLS, UNMANUFACTURED-----	2,672	27	2,177	466	-----	-----	-----	
1021 COPPER ORE AND CONCENTRATES-----	295	-----	295	-----	-----	-----	-----	
1051 ALUMINUM ORES, CONCENTRATES-----	14,925	14,760	165	-----	-----	-----	-----	
1061 MANGANESE ORES, CONCENTRATES-----	66	37	29	-----	-----	-----	-----	
1091 NONFERROUS ORES, CONCENT., NEC-----	2,381	635	1,746	-----	-----	-----	-----	
1121 COAL AND LIGNITE-----	18,442	3,599	190	255	14,398	-----	-----	
1311 CRUDE PETROLEUM-----	2,016	64	-----	-----	-----	1,952	-----	
1411 LIMESTONE-----	204,690	204,650	40	-----	-----	-----	-----	
1412 BUILDING STONE, UNWORKED-----	2,881	-----	2,865	16	-----	-----	-----	
1442 SAND, GRAVEL, CRUSHED ROCK-----	2,629,426	633,236	42,216	2,044	1,691,408	257,200	3,322	
1451 CLAY-----	131,536	292	26,333	15	90,547	14,343	-----	
1471 PHOSPHATE ROCK-----	165	2	163	-----	-----	-----	-----	
1479 NATURAL FERTILIZER MATS, NEC-----	59	39	-----	-----	-----	-----	-----	
1491 SALT-----	5,731	48	24	5,659	-----	-----	-----	
1492 SULPHUR, DRY-----	25,287	-----	8,349	200	16,738	-----	-----	
1494 GYPSUM, CRUDE AND PLASTERS-----	98,725	97,772	953	-----	-----	-----	-----	
1499 NONMETALLIC MINERALS, NEC-----	114,164	951	25,973	492	2,500	40,448	43,800	
1911 ORDNANCE AND ACCESSORIES-----	784	474	310	-----	-----	-----	-----	
2011 MEAT, FRESH, CHILLED, FROZEN-----	59,324	3,651	51,535	75	4,063	-----	-----	
2012 MEAT AND PRODUCTS, NEC-----	2,644	515	2,144	185	-----	-----	-----	
2014 TALLOW, ANIMAL FATS AND OILS-----	25,793	-----	25,793	-----	-----	-----	-----	
2015 ANIMAL BY-PRODUCTS, NEC-----	252,224	50	252,174	-----	-----	-----	-----	
2021 DAIRY PRODUCTS, NEC-----	1,772	632	170	970	-----	-----	-----	
2022 DRIED MILK AND CREAM-----	7,115	55	7,060	-----	-----	-----	-----	
2031 FISH AND SHELLFISH, PREPARED-----	130,062	17,905	24,116	87,449	592	-----	-----	
2034 VEGETABLES AND PREP., NEC-----	40,714	23,755	11,628	98	5,233	-----	-----	
2039 PREP FRUIT AND VEG JUICE, NEC-----	93,684	65,985	6,190	19,628	2,041	-----	-----	
2041 WHEAT FLOUR AND SEMOLINA-----	3,693	-----	421	-----	3,272	-----	-----	
2042 ANIMAL FEEDS-----	285,476	464	281,807	-----	3,205	-----	-----	
2049 GRAIN MILL PRODUCTS, NEC-----	61,695	4,880	56,689	126	-----	-----	-----	
2061 SUGAR-----	17,131	222	13,048	3,741	120	-----	-----	
2062 MOLASSES-----	33,812	-----	31,912	-----	-----	1,900	-----	
2081 ALCOHOLIC BEVERAGES-----	108,825	69,452	23,456	1	15,916	-----	-----	
2091 VEGETABLE OILS, MARG, SHORT-----	3,250	784	2,136	-----	330	-----	-----	
2092 ANIMAL OILS AND FATS, NEC-----	257	146	-----	43	18	-----	-----	
2094 GROCERIES-----	31,401	-----	65	31,336	-----	-----	-----	
2095 ICE-----	2,717	2,717	-----	-----	-----	-----	-----	
2099 MISCELLANEOUS FOOD PRODUCTS-----	108,972	21,937	42,751	6,284	38,000	-----	-----	
2111 TOBACCO MANUFACTURES-----	812	56	756	-----	-----	-----	-----	
2211 BASIC TEXTILE PRODUCTS-----	80,978	70,872	9,927	11	168	-----	-----	
2212 TEXTILE FIBERS, NEC-----	112	108	1	-----	3	-----	-----	
2311 APPAREL-----	176,671	173,681	3,390	-----	-----	-----	-----	
2411 LOGS-----	84,644	33,089	49,368	85	2,102	36,042	393,745	342,018
2412 RAFTED LOGS-----	771,805	-----	-----	-----	-----	-----	-----	
2413 FUEL WOOD, CHARCOAL, WASTES-----	7,159	3,406	1,716	78	1,959	-----	-----	
2414 TIMBER, POSTS, POLES, PILING-----	13,554	627	1,785	6	251	6,053	2,937	1,895
2416 WOOD CHIPS, STAVES, HOLDINGS-----	72,207	34,303	37,904	-----	-----	-----	-----	
2421 LUMBER-----	506,741	10,207	413,166	21,725	57,774	1,081	1,143	1,845
2431 VENEER, PLYWOOD, WORKED WOOD-----	17,481	3,032	8,192	152	6,105	-----	-----	
2491 WOOD MANUFACTURES, NEC-----	88,422	21,894	39,359	198	24,807	20	418	1,726
2511 FURNITURE AND FIXTURES-----	79,042	64,636	3,087	5,189	6,130	-----	-----	
2611 PULP-----	631,294	5,942	37,725	58,128	-----	129,449	-----	-----
2621 STANDARD NEWSPRINT PAPER-----	400,327	286,651	109,812	-----	3,864	-----	-----	
2631 PAPER AND PAPERBOARD-----	413,170	21,317	366,764	23	6,131	18,728	207	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	38,177	7,405	6,502	1,777	22,493	-----	-----	
2711 PRINTED MATTER-----	41,452	38,802	2,634	-----	16	-----	-----	
2810 SODIUM HYDROXIDE-----	46,064	-----	-----	-----	46,064	-----	-----	
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	17,553	6,100	525	10,928	-----	-----	-----	
2812 DYES, PIGMENT, TANNING MATS-----	2,264	-----	1,251	-----	1,033	-----	-----	
2813 ALCOHOLS-----	2,433	1,161	935	-----	337	-----	-----	
2816 RADIOACTIVE MATERIALS, WASTES-----	213	165	34	14	-----	-----	-----	
2817 BENZENE AND TOLUENE-----	1,144	-----	15	-----	1,129	-----	-----	
2819 BASIC CHEMICALS AND PROD., NEC-----	82,183	31,032	45,199	208	5,734	-----	-----	
2921 PLASTIC MATERIALS-----	97,696	44,658	50,840	14	2,184	-----	-----	
2922 SYNTHETIC RUBBER-----	114	18	96	-----	-----	-----	-----	
2923 SYNTHETIC (MAN-MADE) FIBERS-----	7,339	1,331	6,008	-----	-----	-----	-----	
2931 DRUGS-----	4,275	1,846	2,029	-----	-----	-----	-----	
2941 SOAPS-----	49,157	4,546	43,720	-----	891	-----	-----	
2951 PAINTS-----	21,690	18,143	3,077	29	441	-----	-----	
2961 GUM AND WOOD CHEMICALS-----	237,202	24	1,911	-----	32	109,860	120,035	5,340
2971 NITROGENOUS CHEM FERTILIZERS-----	13,312	234	2,291	-----	10,837	-----	-----	
2972 POTASSIC CHEM FERTILIZERS-----	489	19	470	-----	-----	-----	-----	
2973 PHOSPHATIC CHEM FERTILIZERS-----	36	20	16	-----	-----	-----	-----	
2976 INSECTICIDES, DISINFECTANTS-----	6,757	667	6,090	-----	-----	-----	-----	
2979 FERTILIZER AND MATERIALS, NEC-----	3,663	1,032	366	221	2,244	-----	-----	
2991 MISCELLANEOUS CHEMICAL PROD-----	28,623	6,071	12,594	-----	9,608	550	-----	-----
2992 GADDLINE-----	769,643	103,359	346	235,744	66,189	259,722	48,050	76,233
2993 JET FUEL-----	138,269	828	156	36,733	52,728	44,653	-----	3,171
2994 DISTILLATE FUEL OIL-----	708,829	16,190	7,718	200,751	70,974	151,594	55,140	206,462
2995 RESIDUAL FUEL OIL-----	1,401,226	3,283	7,912	316,656	29,587	536,635	118,276	388,877
2996 LUBRICATING OILS AND GREASES-----	45,499	1,316	4,365	37,833	1,333	-----	315	337
2997 NAPHTHA, PETROLEUM SOLVENTS-----	2,046	-----	94	1,952	-----	-----	-----	
2998 ASPHALT, TAR, AND PITCHES-----	37,824	73	166	34,334	2,051	-----	-----	
2999 COKE, PETROLEUM COKE-----	24,794	-----	402	-----	-----	24,392	-----	
3021 LIQUEFIED GASES-----	1,793	80	383	37	1,293	-----	-----	
3051 ASPHALT BUILDING MATERIALS-----	603	-----	331	5	267	-----	-----	
3091 PETROLEUM AND COAL PROD, NEC-----	109,751	616	765	16,872	20,114	69,192	2,192	-----
3092 RUBBER AND MISC PLASTIC PROD-----	181,613	163,031	16,738	193	1,051	-----	-----	
3111 LEATHER AND LEATHER PRODUCTS-----	93,007	80,750	12,293	-----	14	-----	-----	
3211 GLASS AND GLASS PRODUCTS-----	30,266	25,326	12,062	-----	276	-----	-----	
3241 BUILDING CEMENT-----	451,600	303,169	354	10,249	30,679	89,949	-----	17,200

## SEATTLE, WA., DISTRICT

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SEATTLE HARBOR, WASH.--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

(SHORT TUNS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC				LOCAL	
		IMPORTS	EXPORTS	COASTWISE		INTERNAL			
				RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS		
3251 STRUCTURAL CLAY PRODUCTS-----	24,932	22,271	2,521	140	-----	-----	-----	-----	
3271 LIME-----	140	-----	53	87	-----	-----	-----	-----	
3281 CUT STONE AND STONE PRODUCTS-----	8,484	7,436	324	724	-----	-----	-----	-----	
3291 MISC NONMETALLIC MINERAL PROD-----	146,294	82,859	7,579	221	31,304	21,808	268	2,255	
3312 SLAG-----	1,044	-----	-----	1,044	-----	-----	-----	-----	
3314 IRON AND STEEL PRIMARY FORMS-----	826	50	773	3	-----	-----	-----	-----	
3315 IRON, STEEL SHAPES, EXC SHEET-----	131,795	126,985	615	515	3,675	-----	5	-----	
3316 IRON AND STEEL PLATES, SHEETS-----	10,221	3,385	3,494	64	3,280	-----	-----	-----	
3317 IRON AND STEEL PIPE AND TUBE-----	51,407	41,566	828	1,581	2,152	500	4,800	-----	
3318 FERROALLOYS-----	2,201	600	1,541	-----	-----	-----	-----	-----	
3319 IRON AND STEEL PRODUCTS, NEC-----	13,748	12,256	1,078	454	-----	-----	150	-----	
3321 NONFERROUS METALS, NEC-----	7,435	1,783	5,502	20	-----	-----	-----	-----	
3322 COPPER ALLOYS, UNWORKED-----	14,577	5,301	9,261	15	-----	-----	-----	-----	
3323 LEAD AND ZINC, UNWORKED-----	6,697	298	6,132	267	-----	-----	-----	-----	
3324 ALUMINUM AND ALLOYS, UNWORKED-----	113,389	29,402	84,347	-----	-----	-----	-----	-----	
3411 FABRICATED METAL PRODUCTS-----	334,759	260,425	19,100	3,916	46,860	-----	450	4,008	
3511 MACHINERY, EXCEPT ELECTRICAL-----	422,939	370,327	28,710	5,070	10,750	100	20	7,962	
3611 ELECTRICAL MACH AND EQUIP-----	459,246	438,741	19,398	56	1,051	-----	-----	-----	
3711 MOTOR VEHICLES, PARTS, EQUIP-----	381,199	347,039	7,984	7,049	19,127	-----	-----	-----	
3721 AIRCRAFT AND PARTS-----	5,059	4,675	379	2	3	-----	-----	-----	
3731 SHIPS AND BOATS-----	7,034	4,609	1,012	241	1,172	-----	-----	-----	
3791 MISC TRANSPORTATION EQUIPMENT-----	4,473	2,320	1,555	97	501	-----	-----	-----	
3811 INSTN, TIME, PHOTO, OPT GOODS-----	39,628	36,514	3,514	-----	-----	-----	-----	-----	
3911 MISC MANUFACTURED PRODUCTS-----	209,105	181,610	10,500	13,433	3,522	-----	40	-----	
4011 IRON AND STEEL SCRAP-----	29,460	2,701	23,763	2,666	-----	20	-----	310	
4012 NONFERROUS METAL SCRAP-----	73,704	66	73,570	68	-----	-----	-----	-----	
4022 TEXTILE WASTE, SCRAP, SMEEP-----	14,409	313	10,096	-----	-----	-----	-----	-----	
4024 PAPER WASTE AND SCRAP-----	159,654	-----	159,654	-----	-----	-----	-----	-----	
4029 WASTE AND SCRAP, NEC-----	186,610	-----	-----	-----	65,585	7,825	113,240	-----	
4112 COMMODITIES, NEC-----	585,455	94,779	23,957	20,580	444,538	50	51	1,500	
4113 LCL FREIGHT-----	8	-----	-----	-----	8	-----	-----	-----	
4119 EMPTY CONTAINERS-----	1,827	-----	-----	1,660	167	-----	-----	-----	
9999 DEPARTMENT OF DEFENSE AND SCI-----	7,123	-----	7,123	-----	-----	-----	-----	-----	

LAKE WASHINGTON SHIP CANAL, WASH.  
(INCLUDED IN TRAFFIC OF SEATTLE HARBOR, WASH.)

SECTION INCLUDED: AS DESCRIBED UNDER SEATTLE HARBOR, WASH.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS	YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS
1977-----	1,348,728	131,321	1,480,049	48,591	1982-----	1,226,680	90,027	1,316,707	27,747
1978-----	1,733,392	211,265	1,944,657	-----	1983-----	543,657	59,965	603,622	94,178
1979-----	1,793,454	145,891	1,939,345	68,085	1984-----	1,233,876	37,964	1,271,840	95,340
1980-----	1,571,656	102,495	1,674,153	38,397	1985-----	1,632,092	203,021	1,835,113	99,437
1981-----	1,831,203	145,361	1,976,564	85,936	1986-----	1,228,971	531,580	1,760,551	104,496

## FREIGHT TRAFFIC, 1986

(SHORT TUNS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC				LOCAL	
		IMPORTS	EXPORTS	COASTWISE		INTERNAL			
				RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS		
TOTAL-----	1,760,551	34,879	1,129	63,402	97,959	675,738	838,732	448,712	
0122 HAY AND FOOD-----	272	-----	-----	272	-----	-----	-----	-----	
0131 FRESH FRUITS-----	30	-----	-----	30	-----	-----	-----	-----	
0141 FRESH AND FROZEN VEGETABLES-----	31	-----	-----	31	-----	-----	-----	-----	
0191 MISCELLANEOUS FARM PRODUCTS-----	72	-----	-----	72	-----	-----	-----	-----	
0861 FOREST PRODUCTS, NEC-----	156	-----	-----	156	-----	-----	-----	-----	
0911 FRESH FISH, EXCEPT SHELLFISH-----	1,141	-----	284	857	-----	-----	-----	-----	
1442 SAND, GRAVEL, CRUSHED ROCK-----	691,000	34,689	-----	308	632,227	223,700	-----	-----	
1451 CLAY-----	15	-----	-----	15	-----	-----	-----	-----	
1491 SALT-----	3,339	-----	24	3,315	-----	-----	-----	-----	
1499 NONMETALLIC MINERALS, NEC-----	46	-----	-----	46	-----	-----	-----	-----	
2011 MEAT, FRESH, CHILLED, FROZEN-----	953	-----	-----	953	-----	-----	-----	-----	
2031 FISH AND SHELLFISH, PREPARED-----	57,791	-----	56,978	-----	817	-----	-----	-----	
2039 PREP FRUIT AND VEG JUICE, NEC-----	1,493	-----	-----	1,493	-----	-----	-----	-----	
2042 ANIMAL FEEDS-----	200	-----	-----	200	-----	-----	-----	-----	
2049 GRAIN MILL PRODUCTS, NEC-----	5	-----	-----	5	-----	-----	-----	-----	
2081 ALCOHOLIC BEVERAGES-----	2,849	-----	-----	2,849	-----	-----	-----	-----	
2094 GROCERIES-----	9,052	-----	36	9,016	-----	-----	-----	-----	
2099 MISCELLANEOUS FOOD PRODUCTS-----	670	-----	-----	870	-----	-----	-----	-----	
2211 BASIC TEXTILE PRODUCTS-----	20	-----	-----	20	-----	-----	-----	-----	
2411 LOGS-----	259	-----	259	-----	-----	-----	-----	-----	
2412 RAFTED LOGS-----	531,500	-----	-----	-----	7,302	211,060	313,218	-----	
2414 TIMBER, POSTS, POLES, PILING-----	552	-----	6	152	158	61	175	-----	
2421 LUMBER-----	6,181	-----	12	6,101	-----	-----	28	-----	
2431 VENEER, PLYWOOD, WORKED	570	-----	-----	-----	570	-----	-----	-----	
2491 WOOD MANUFACTURE, NEC-----	6,327	-----	53	6,264	-----	-----	-----	-----	
2511 FURNITURE AND FIXTURES-----	756	-----	367	389	-----	-----	-----	-----	
2611 PULP-----	653	-----	853	-----	-----	-----	-----	-----	

## Waterborne Commerce of the United States, 1986

LAKE WASHINGTON SHIP CANAL, WASH.  
(INCLUDED IN TRAFFIC OF SEATTLE HARBOR, WASH.)--CONTINUED  
FREIGHT TRAFFIC, 1986--CONTINUED

COMMODITY	TOTAL	FOREIGN		DOMESTIC				
		IMPORTS	EXPORTS	COASTWISE		INTERNAL		LOCAL
				RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS	
2621 STANDARD NEWSPRINT PAPER-----	118				118			
2631 PAPER AND PAPERBOARD-----	5				5			
2691 PULP AND PAPER PRODUCTS, NEC-----	2,122			12	2,110			
2711 PRINTED MATTER-----	16				16			
2819 BASIC CHEMICALS AND PROD, NEC-----	180	23		16	141			
2821 PLASTIC MATERIALS-----	144			2	142			
2841 SOAP-----	32		17		15			
2851 PAINTS-----	263			6	257			
2861 GUM AND WOOD CHEMICALS-----	3,452				32		3,020	
2871 NITROGENOUS CHEM FERTILIZERS-----	180				180			
2879 FERTILIZER AND MATERIALS, NEC-----	670				670			
2891 MISCELLANEOUS CHEMICAL PROD-----	48				48			
2911 GASOLINE-----	52,085				195	1,291		50,599
2914 DISTILLATE FUEL OIL-----	114,447				6,395	30,240	322	77,490
2916 LUBRICATING OILS AND GREASES-----	627				295		169	163
2918 ASPHALT, TAR, AND PITCHES-----	132					132		
2921 LIQUEFIED GASES-----	568			37	531			
2951 ASPHALT BUILDING MATERIALS-----	64			5	59			
2991 PETROLEUM AND COAL PROD, NEC-----	480			24	456			
3011 RUBBER AND MISC PLASTIC PROD-----	123				123			
3211 GLASS AND GLASS PRODUCTS-----	28				28			
3241 BUILDING CEMENT-----	9,087			48	2,039			7,000
3251 STRUCTURAL CLAY PRODUCTS-----	41				41			
3271 LIME-----	87				87			
3281 CUT STONE AND STONE PRODUCTS-----	814	132			682			
3291 MISC NONMETALLIC MINERAL PROD-----	6,245			11	6,206	28		
3314 IRON AND STEEL PRIMARY FORMS-----	3				3			
3315 IRON, STEEL SHAPES, EXC SHEET-----	3,634				159	3,675		
3317 IRON AND STEEL PIPE AND TUBE-----	1,318				1,318			
3319 IRON AND STEEL PRODUCTS, NEC-----	454				454			
3322 COPPER ALLOYS, UNWORKED-----	15				15			
3411 FABRICATED METAL PRODUCTS-----	7,494			501	6,985			8
3511 MACHINERY, EXCEPT ELECTRICAL-----	2,344	35		1,339	969			1
3611 ELECTRICAL MACH AND EQUIP-----	166			47	121			
3711 MOTOR VEHICLES, PARTS, EQUIP-----	1,514			716	798			
3721 AIRCRAFT AND PARTS-----	2			2				
3731 SHIPS AND BOATS-----	873			227	646			
3791 MISC TRANSPORTATION EQUIPMENT-----	429			86	343			
3911 MISC MANUFACTURED PRODUCTS-----	56			2	54			
4011 IRON AND STEEL SCRAP-----	215			205				10
4029 WASTE AND SCRAP, NEC-----	20							20
4112 COMMODITIES, NEC-----	32,960			1,977	30,983			
4113 LCL FREIGHT-----	8				8			
4119 EMPTY CONTAINERS-----	373			373				

## EVERETT HARBOR AND SNOHOMISH RIVER, WASH.

SECTION INCLUDED: PORT GARDNER BAY FROM THE NEYERHAUSER COMPANY THERMO-MECHANICAL MILL, ON THE SOUTH TO PRESTON POINT ON THE NORTH AND INCLUDING THE SNOHOMISH RIVER AND TIBURON WATERS, CONTROLLING DEPTH 11 FEET IN PORT GARDNER BAY TO THE SETTLING BASIN; 7.8 FEET IN THE SETTLING BASIN; 6.1 FEET FROM THE SETTLING BASIN TO BURLINGTON NORTHERN RAILROAD; 1.8 FEET FROM BURLINGTON NORTHERN RAILROAD TO HEAD OF WATERWAY AT STEAMBOAT SLOUGH, PROJECT DEPTH 11 FEET; DEEP WATER IN PORT GARDNER BAY TO SETTLING BASIN, 15 FEET; SETTLING BASIN, 20 FEET; FROM THE SETTLING BASIN TO THE GAP, 8 FEET; FROM THE GAP TO THE UPSTREAM SETTLING BASIN, 8 FEET; 40 FEET IN UPSTREAM SETTLING BASIN; 8 FEET TO HEAD OF WATERWAY. ALL DEPTHS REFER TO MLLW.

## COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1977-----	2,687,127	1,901,875	4,589,002	1982-----	2,300,966	1,686,001	3,986,987
1978-----	2,824,487	3,239,228	6,063,715	1983-----	2,126,592	1,606,578	3,753,170
1979-----	2,466,941	2,331,705	4,798,646	1984-----	2,139,199	1,628,122	3,767,321
1980-----	2,342,826	2,016,281	4,359,107	1985-----	2,235,514	1,892,754	4,128,268
1981-----	1,879,790	1,421,707	3,301,497	1986-----	2,341,602	3,455,746	5,797,428

\* PASSENGERS--8,790.

## FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC				
		IMPORTS	EXPORTS	COASTWISE		INTERNAL		LOCAL
				RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS	
TOTAL-----	5,797,428	534,699	1,612,607	9	11,580	1,464,237	589,887	1,584,409
0131 FRESH FRUITS-----	7,774		7,774					
0841 CRUDE RUBBER AND ALLIED GUMS-----	1,665	1,665						
0911 FRESH FISH, EXCEPT SHELLFISH-----	6,477	21					6,456	
0912 SHELLFISH, EXCEPT PREPARED-----	77	19					58	
1051 ALUMINUM ORES, CONCENTRATES-----	370,063	370,063						
1411 LIMESTONE-----	3,713	3,713						
1442 SAND, GRAVEL, CRUSHED ROCK-----	33,589	14,589				19,000		
1499 NONMETALLIC MINERALS, NEC-----	3,163					3,163		
2031 FISH AND SHELLFISH, PREPARED-----	18	18						

## SEATTLE, WA, DISTRICT

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EVERETT HARBOR AND SNOHOMISH RIVER, WASH.--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC				LOCAL	
		IMPORTS	EXPORTS	COASTWISE		INTERNAL			
				RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS		
2034 VEGETABLES AND PREP, NEC-----	60	60	-----	-----	-----	-----	-----	-----	
2099 MISCELLANEOUS FOOD PRODUCTS-----	34	34	-----	-----	-----	-----	-----	-----	
2211 BASIC TEXTILE PRODUCTS-----	294	294	-----	-----	-----	-----	-----	-----	
2311 APPAREL-----	289	289	-----	-----	-----	-----	-----	-----	
2411 LOGS-----	1,600,324	22,256	1,578,066	-----	-----	-----	-----	-----	
2412 RAFTED LOGS-----	3,455,746	-----	-----	-----	-----	1,318,103	556,605	1,581,038	
2413 FUEL WOOD, CHARCOAL, WASTES-----	118	72	46	-----	-----	-----	-----	370	
2414 TIMBER, POSTS, POLES, PILING-----	360	-----	-----	-----	-----	-----	-----	10	
2415 PULPWOOD, LOG-----	9,673	-----	8,125	-----	1,308	-----	-----	-----	
2416 WOOD CHIPS, STAVES, HOLDINGS-----	153,375	95,428	17,00	-----	-----	23,166	31,367	1,614	
2421 LUMBER-----	6,092	-----	6,092	-----	-----	-----	-----	-----	
2491 ADD MANUFACTURES, NEC-----	5	5	-----	-----	-----	-----	-----	-----	
2511 FURNITURE AND FIXTURES-----	108	108	-----	-----	-----	-----	-----	-----	
2611 PULP-----	4,092	-----	4,092	-----	-----	-----	-----	-----	
2631 PAPER AND PAPERBOARD-----	3,569	-----	3,569	-----	-----	-----	-----	-----	
2691 PULP AND PAPER PRODUCTS, NEC-----	96	96	-----	-----	-----	-----	-----	-----	
2711 PRINTED MATTER-----	1	1	-----	-----	-----	-----	-----	-----	
2810 SODIUM HYDROXIDE-----	11,220	-----	-----	-----	-----	11,220	-----	-----	
2819 BASIC CHEMICALS AND PROD, NEC-----	21	-----	21	-----	-----	-----	-----	-----	
2821 PLASTIC MATERIALS-----	11	11	-----	-----	-----	-----	-----	-----	
2841 SOAP-----	4	4	-----	-----	-----	-----	-----	-----	
2861 GUM AND WOOD CHEMICALS-----	37,128	-----	-----	-----	-----	36,295	-----	835	
2891 MISCELLANEOUS CHEMICAL PROD-----	7,925	-----	-----	-----	-----	7,925	-----	-----	
2914 DISTILLATE FUEL OIL-----	9,151	43	-----	-----	-----	-----	9,108	-----	
2915 RESIDUAL FUEL OIL-----	30,333	-----	-----	-----	-----	-----	29,419	918	
3011 RUBBER AND MISC PLASTIC PROD-----	138	138	-----	-----	-----	-----	-----	-----	
3111 LEATHER AND LEATHER PRODUCTS-----	174	174	-----	-----	-----	-----	-----	-----	
3241 BUILDING CEMENT-----	17,637	17,637	-----	-----	-----	-----	-----	-----	
3291 41SC NONMETALLIC MINERAL PROD-----	5	5	-----	-----	-----	-----	-----	-----	
3315 IRON, STEEL SHAPES, EXC SHEET-----	148	148	-----	-----	-----	-----	-----	-----	
3317 IRON AND STEEL PIPE AND TUBE-----	70	-----	-----	-----	-----	-----	70	-----	
3324 ALUMINUM AND ALLOYS, UNWORKED-----	2,750	-----	2,750	-----	-----	-----	-----	-----	
3411 FABRICATED METAL PRODUCTS-----	3,234	3,233	1	-----	-----	-----	-----	-----	
3511 MACHINERY, EXCEPT ELECTRICAL-----	10,056	1,123	3	-----	8,930	-----	-----	-----	
3611 ELECTRICAL MACH AND EQUIP-----	133	133	3	-----	-----	-----	-----	-----	
3711 MOTOR VEHICLES, PARTS, EQUIP-----	17	17	-----	-----	-----	-----	-----	-----	
3721 AIRCRAFT AND PARTS-----	12	-----	12	-----	-----	-----	-----	-----	
3811 INSTR, TIME, PHOTO, OPT GOODS-----	11	11	-----	-----	-----	-----	-----	-----	
3911 MISC MANUFACTURED PRODUCTS-----	214	214	-----	-----	-----	-----	-----	-----	
4011 IRON AND STEEL SCRAP-----	3,033	3,033	-----	-----	-----	-----	-----	-----	
4112 COMMODITIES, NEC-----	3,208	44	54	9	1,302	324	1,475	-----	

SWINOMISH CHANNEL, WASH.

SECTION INCLUDED: ENTIRE CHANNEL. CONTROLLING DEPTH: 11.2 FEET. PROJECT DEPTH: 12 FEET. ALL DEPTHS REFER TO MLLW.

## COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1977-----	2,600	1,035,791	1,038,391	1982-----	3,107	697,026	700,131
1978-----	1,805	690,097	691,902	1983-----	1,817	723,557	725,376
1979-----	4,403	1,053,450	1,057,853	1984-----	30,726	827,713	850,439
1980-----	17,459	636,112	653,571	1985-----	12,025	683,981	696,006
1981-----	21,372	776,980	796,356	1986-----	81,678	2,077,899	2,159,577

## FREIGHT TRAFFIC, 1986

## DOMESTIC

(SHORT TONS)

COMMODITY	TOTAL	INBOUND	OUTBOUND	INTERNAL		THROUGH SOUTHBOUND
				NORTHBOUND	SOUTHBOUND	
TOTAL-----	2,159,577	153,452	998,727	293,223	712,225	1,950
0911 FRESH FISH, EXCEPT SHELLFISH-----	1,903	1,903	-----	-----	-----	-----
0912 SHELLFISH, EXCEPT PREPARED-----	150	150	-----	-----	-----	-----
2412 RAFTED LOGS-----	2,077,899	151,399	921,038	293,223	712,225	14
2611 PULP-----	1,289	-----	1,289	-----	-----	-----
2914 DISTILLATE FUEL OIL-----	1,936	-----	1,936	-----	-----	1,936
4029 WASTE AND SCRAP, NEC-----	76,400	-----	76,400	-----	-----	-----

TOTAL TON-MILES, 6,959,126.

## Waterborne Commerce of the United States, 1986

## ANACORTES HARBOR, WASH.

SECTION INCLUDED: WATER FRONT OF FIDALGO ISLAND FROM BURROWS BAY TO AND INCLUDING THE OIL REFINERY WHARVES ON FIDALGO BAY, CONTROLLING DEPTH; MAIN HARBOR ON GUEMES CHANNEL, 33 FEET; CAPSANTE WATERWAY, OUTER WATERWAY 11.8 FEET, INNER WATERWAY 11.8 FEET, ANACORTES NAVIGATION CHANNEL, 16.2 FEET. PROJECT DEPTH: NO PROJECT FOR MAIN HARBOR CAPSANTE WATERWAY, 12 FEET ANACORTES NAVIGATION CHANNEL, 18 FEET. ALL DEPTHS REFER TO MLLW.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS	YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS
1977-----	8,821,585	146,728	8,968,313	695,552	1982-----	9,346,613	42,627	9,439,240	1,417,412
1978-----	9,787,419	177,343	9,964,762	742,968	1983-----	8,217,977	142,578	8,360,555	1,049,042
1979-----	9,028,091	170,974	9,599,065	864,318	1984-----	8,614,149	55,927	8,650,076	4,895,136
1980-----	9,043,642	122,170	9,165,812	753,148	1985-----	10,165,791	42,518	10,208,309	4,897,248
1981-----	9,623,049	228,033	9,851,082	840,096	1986-----	12,366,078	380,616	12,746,694	3,320,862

## ADDITIONAL TRAFFIC

YEAR	GENERAL FERRY								
	FOREIGN			DOMESTIC			TOTAL		
	TONS	VEHICLES	PASSENGERS	TONS	VEHICLES	PASSENGERS	TONS	VEHICLES	PASSENGERS
1977-----	*	55,218	141,120	*	362,967	554,428	*	418,185	695,552
1978-----	*	48,492	131,014	*	396,972	611,954	*	445,466	742,968
1979-----	*	44,128	126,671	*	452,699	737,647	*	496,827	864,318
1980-----	*	36,388	100,346	*	377,196	632,892	*	413,540	753,148
1981-----	*	55,552	157,470	*	386,356	682,626	*	441,910	840,096
1982-----	*	64,852	245,678	*	447,040	1,171,734	*	511,692	1,417,412
1983-----	*	61,401	157,310	*	442,942	891,732	*	504,343	1,049,042
1984-----	*	126,528	472,554	*	1,684,948	4,422,592	*	1,811,476	4,895,136
1985-----	*	137,990	472,554	*	1,667,060	4,424,694	*	1,805,050	4,897,248
1986-----	*	158,330	386,316	*	1,921,656	3,320,862	*	2,079,988	3,707,178

\* NOT REPORTED.

## FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC				LOCAL	
		IMPORTS	EXPORTS	COASTWISE		INTERNAL			
				RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS		
TOTAL-----	12,746,694	1,151,851	788,517	7,853,298	1,698,297	396,433	852,142	6,156	
0101 COTTON, RAW-----	49	-----	49	-----	-----	-----	-----	-----	
0102 BARLEY AND RYE-----	40	40	-----	-----	-----	-----	-----	-----	
0105 RICE-----	23	23	-----	-----	-----	-----	-----	-----	
0129 FIELD CROPS, NEC-----	645	645	-----	-----	-----	-----	-----	-----	
0141 FRESH AND FROZEN VEGETABLES-----	327	12	315	-----	-----	-----	-----	-----	
0161 ANIMALS AND PRODUCTS, NEC-----	104	104	-----	-----	-----	-----	-----	-----	
0191 MISCELLANEOUS FARM PRODUCTS-----	3	3	-----	-----	-----	-----	-----	-----	
0911 FRESH FISH, EXCEPT SHELLFISH-----	3,059	510	595	-----	-----	1,954	-----	-----	
0912 SHELLFISH, EXCEPT PREPARED-----	519	-----	-----	-----	-----	519	-----	-----	
1121 COAL AND LIGNITE-----	4,493	4,493	-----	-----	-----	-----	-----	-----	
1311 CRUDE PETROLEUM-----	8,250,993	1,040,648	-----	7,210,345	-----	-----	-----	-----	
1411 LIMESTONE-----	4,000	4,000	-----	-----	-----	-----	520	-----	
1442 SAND, GRAVEL, CRUSHED ROCK-----	4,930	4,410	-----	-----	-----	-----	-----	-----	
1451 CLAY-----	140	140	-----	-----	-----	-----	-----	-----	
1492 SULPHUR, DRY-----	30,996	30,996	-----	-----	-----	-----	-----	-----	
1499 NONMETALLIC MINERALS, NEC-----	89	20	69	-----	-----	-----	-----	-----	
2011 MEAT, FRESH, CHILLED, FROZEN-----	83	83	83	-----	-----	-----	-----	-----	
2015 ANIMAL BY-PRODUCTS, NEC-----	1,020	1,020	-----	-----	-----	-----	-----	-----	
2031 FISH AND SHELLFISH, PREPARED-----	178	23	155	-----	-----	-----	-----	-----	
2034 VEGETABLES AND PREP, NEC-----	6	8	-----	-----	-----	-----	-----	-----	
2039 PREP FRUIT AND VEG JUICE, NEC-----	88	44	44	-----	-----	-----	-----	-----	
2042 ANIMAL FEEDS-----	648	648	-----	-----	-----	-----	-----	-----	
2049 GRAIN MILL PRODUCTS, NEC-----	13	13	-----	-----	-----	-----	-----	-----	
2099 MISCELLANEOUS FOOD PRODUCTS-----	154	24	130	-----	-----	-----	-----	-----	
2211 BASIC TEXTILE PRODUCTS-----	301	141	-----	-----	-----	160	-----	-----	
2311 APPAREL-----	84	84	-----	-----	-----	-----	-----	-----	
2411 LOGS-----	180,592	18,904	161,688	-----	-----	-----	-----	-----	
2412 RAFTED LOGS-----	380,616	22	22	-----	-----	309,217	69,479	1,920	
2413 FUEL COAL, CHARCOAL, WASTES-----	15,614	-----	205	13,489	-----	-----	1,920	-----	
2421 WOOD MANUFACTURES, NEC-----	14	14	-----	-----	-----	-----	420	-----	
2511 FURNITURE AND FIXTURES-----	527	107	99	-----	-----	-----	-----	-----	
2611 PULP-----	706	706	-----	-----	-----	-----	-----	-----	
2711 PRINTED MATTER-----	14	14	-----	-----	-----	-----	-----	-----	
2819 BASIC CHEMICALS AND PROD, NEC-----	13,340	13,307	33	-----	-----	-----	-----	-----	
2821 PLASTIC MATERIALS-----	19	19	-----	-----	-----	-----	-----	-----	
2879 FERTILIZER AND MATERIALS, NEC-----	40	40	-----	-----	-----	-----	-----	-----	
2891 MISCELLANEOUS CHEMICAL PROD-----	10,625	1	2,692	7,932	-----	-----	-----	-----	
2911 GASOLINE-----	1,060,858	7,615	-----	46,575	657,965	6,213	140,490	-----	
2912 JET FUEL-----	132,543	-----	12,196	7,081	84,300	1,776	27,192	-----	
2914 DISTILLATE FUEL OIL-----	694,431	-----	256,557	81,500	195,237	41,511	114,216	2,370	
2915 RESIDUAL FUEL OIL-----	1,227,503	58,858	80,238	503,105	331,616	25,118	223,568	-----	
2917 NAPHTHA, PETROLEUM SOLVENTS-----	59,387	-----	-----	-----	58,882	505	-----	-----	
2920 COKE, PETROLEUM COKE-----	261,416	-----	237,024	-----	-----	-----	24,392	-----	
2921 LIQUEFIED GASES-----	174	-----	-----	-----	-----	174	-----	-----	
2991 PETROLEUM AND COAL PROD, NEC-----	182,452	1	-----	-----	122,654	-----	57,931	1,866	
3011 RUBBER AND MISC PLASTIC PROD-----	90	90	-----	-----	-----	-----	-----	-----	
3111 LEATHER AND LEATHER PRODUCTS-----	159	159	-----	-----	-----	-----	-----	-----	
3211 GLASS AND GLASS PRODUCTS-----	166	26	-----	-----	-----	-----	166	-----	

## SEATTLE, WA, DISTRICT

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ANACORTES HARBOR, WASH.--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC				LOCAL	
		IMPORTS	EXPORTS	COASTWISE		INTERNAL			
				RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS		
3291 MISC NONMETALLIC MINERAL PROD-----	744	124	-----	-----	-----	-----	620		
3315 IRON, STEEL SHAPES, EXC SHEET-----	42	42	-----	-----	-----	-----	-----		
3317 IRON AND STEEL PIPE AND TUBE-----	5	5	-----	-----	-----	-----	-----		
3319 IRON AND STEEL PRODUCTS, NEC-----	40	-----	40	-----	-----	-----	260		
3411 FABRICATED METAL PRODUCTS-----	1,876	1,616	-----	-----	-----	-----	260		
3511 MACHINERY, EXCEPT ELECTRICAL-----	24,644	36	4	23,214	20	1,370	-----		
3611 ELECTRICAL MACH AND EQUIP-----	270	100	120	-----	-----	-----	640		
3711 MOTOR VEHICLES, PARTS, EQUIP-----	761	110	11	-----	-----	-----	-----		
3731 SHIPS AND BOATS-----	16	-----	16	-----	-----	-----	-----		
3811 INSTR, TIME, PHOTO, OPT GOODS-----	36	36	-----	-----	-----	-----	-----		
3911 MISC MANUFACTURED PRODUCTS-----	44	43	1	-----	-----	-----	-----		
4024 PAPER WASTE AND SCHAP-----	67	67	-----	-----	-----	-----	-----		
4029 ASHTE AND SCHAP, NEC-----	193,200	-----	-----	-----	9,600	163,600	-----		
4112 COMMODITIES, NEC-----	700	625	55	-----	-----	20	-----		

BELLINGHAM BAY AND HARBOR, WASH.

SECTION INCLUDED: BELLINGHAM BAY AND CHUCKANUT BAY FROM THE WHARF OF THE OLYMPIC PORTLAND CEMENT COMPANY ON THE NORTH TO AND INCLUDING CHUCKANUT INTERISLAND FERRY SLIP ON THE SOUTH, CONTROLLING DEPTH: WHATCOM CREEK WATERWAY, 8.9 TO 29.5 FEET; SQUALICUM CREEK WATERWAY, 22.4 FEET, FROM DEEP WATER TO TURNING BASIN, 20.3 FEET IN TURNING BASIN, 15.1 FEET FROM STA. 16 + 00 TO 5 + 00; I & J ST. WATERWAY, 11.0 FT. PROJECT DEPTH: WHATCOM CREEK WATERWAY, 18 TO 30 FEET; SQUALICUM CREEK WATERWAY, 26 FEET OVER THE ENTIRE WATERWAY, I & J STREET WATERWAY 18 FEET OVER THE ENTIRE WATERWAY. ALL DEPTHS REFER TO MLLW.

## COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1977-----	1,639,759	78,658	1,718,417	1982-----	1,790,888	186,888	1,977,776
1978-----	1,496,037	60,789	1,556,826	1983-----	1,239,814	92,663	1,332,477
1979-----	1,839,947	291,707	2,131,654	1984-----	1,169,505	99,934	1,269,439
1980-----	1,824,788	222,563	2,047,351	1985-----	1,269,881	36,997	1,326,878
1981-----	1,263,819	218,166	1,481,985	1986-----	1,713,408	62,462	1,775,870

## FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC				INTERNAL	
		IMPORTS	EXPORTS	COASTWISE		INTERNAL			
				RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS		
TOTAL-----	1,775,870	315,314	358,788	115,109	448,031	306,517	242,111		
0129 FIELD CROPS, NEC-----	22	22	-----	-----	-----	-----	-----		
0131 FRESH FRUITS-----	535	21	514	-----	-----	-----	-----		
0133 COFFEE-----	77	77	-----	-----	-----	-----	-----		
0181 FRESH AND FROZEN VEGETABLES-----	1,181	-----	1,181	-----	-----	-----	-----		
0181 ANIMALS AND PRODUCTS, NEC-----	23	-----	23	-----	-----	-----	-----		
0191 MISCELLANEOUS FARM PRODUCTS-----	15	15	-----	-----	-----	-----	-----		
0841 CRUDE RUBBER AND ALLIED GUMS-----	2	2	-----	-----	-----	-----	-----		
0861 FOREST PRODUCTS, NEC-----	18	-----	18	-----	-----	-----	-----		
0911 FRESH FISH, EXCEPT SHELLFISH-----	36,454	12,791	589	-----	-----	23,074	-----		
0912 SHELLFISH, EXCEPT PREPARED-----	1,002	616	5	-----	-----	381	-----		
1011 IRON ORE AND CONCENTRATES-----	752	-----	752	-----	-----	-----	-----		
1051 ALUMINUM ORES, CONCENTRATES-----	187,719	187,707	12	-----	-----	-----	-----		
1121 COAL AND LIGNITE-----	15,023	15,023	-----	-----	-----	-----	-----		
1451 CLAY-----	3	3	3	-----	-----	-----	-----		
1491 SALT-----	94,190	-----	94,190	-----	-----	-----	-----		
1494 GYPSUM, CRUDE AND PLASTERS-----	3,500	3,500	-----	-----	-----	-----	-----		
1499 NONMETALLIC MINERALS, NEC-----	121	-----	121	-----	-----	-----	-----		
2011 MEAT, FRESH, CHILLED, FROZEN-----	254	-----	254	-----	-----	-----	-----		
2015 ANIMAL BY-PRODUCTS, NEC-----	198	19	179	-----	-----	-----	-----		
2021 DAIRY PRODUCTS, NEC-----	4	4	-----	-----	-----	-----	-----		
2022 DRIED MILK AND CREAM-----	2,061	-----	2,061	-----	-----	-----	-----		
2031 FISH AND SHELLFISH, PREPARED-----	1,779	1,330	25	424	-----	-----	-----		
2034 VEGETABLES AND PREP., NEC-----	41	41	-----	-----	-----	-----	-----		
2039 PREP FRUIT AND VEG JUICE, NEC-----	23	3	20	-----	-----	-----	-----		
2042 ANIMAL FEEDS-----	2,548	498	2,050	-----	-----	-----	-----		
2049 GRAIN MILL PRODUCTS, NEC-----	672	-----	672	-----	-----	-----	-----		
2061 SUGAR-----	57	-----	57	-----	-----	-----	-----		
2081 ALCOHOLIC BEVERAGES-----	638	638	-----	-----	-----	-----	-----		
2099 MISCELLANEOUS FOOD PRODUCTS-----	430	-----	430	-----	-----	-----	-----		
2111 TOBACCO MANUFACTURES-----	6	-----	6	-----	-----	-----	-----		
2211 BASIC TEXTILE PRODUCTS-----	203	64	139	-----	-----	-----	-----		
2311 APPAREL-----	13	9	4	-----	-----	-----	-----		
2411 LOGS-----	3,600	-----	3,600	-----	-----	-----	-----		
2412 RAFTED LOGS-----	62,462	-----	62,462	-----	-----	60,264	2,198		
2413 FUEL WOOD, CHARCOAL, WASTES-----	7,181	4,660	-----	-----	-----	-----	2,521		
2414 TIMBER, POSTS, POLES, PILING-----	30	-----	30	-----	-----	20	10		
2416 WOOD CHIPS, STAVES, HOLDINGS-----	83,988	83,390	-----	-----	-----	-----	598		
2421 LUMBER-----	19,356	158	4,155	-----	15,043	-----	-----		
2431 VENEER, PLYWOOD, WORKED WOOD-----	149	139	10	-----	-----	-----	-----		
2491 WOOD MANUFACTURES, NEC-----	860	3	857	-----	-----	-----	-----		
2511 FURNITURE AND FIXTURES-----	195	191	4	-----	-----	-----	-----		
2611 PULP-----	46,180	-----	46,180	-----	-----	-----	-----		

## Waterborne Commerce of the United States, 1986

BELLINGHAM BAY AND HARBOR, WASH.--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC			
		IMPORTS	EXPORTS	COASTWISE		INTERNAL	
				RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS
2621 STANDARD NEWSPRINT PAPER-----	1,181		1,181				
2631 PAPER AND PAPERBOARD-----	944	2	942				
2691 PULP AND PAPER PRODUCTS, NEC-----	116	78	38				
2711 PRINTED MATTER-----	45		45				
2810 SODIUM HYDROXIDE-----	105,358				105,358		
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	37		37				
2812 DYES, PIGMENT, TANNING MATS-----	14		14				
2813 ALCOHOLS-----	2		2				
2814 SULPHURIC ACID-----	6,360				6,360		
2815 BASIC CHEMICALS AND PROD, NEC-----	277	43	254				
2821 PLASTIC MATERIALS-----	316	43	273				
2822 SYNTHETIC RUBBER-----	17		17				
2823 SYNTHETIC (MAN-MADE) FIBERS-----	6		6				
2831 DRUGS-----	7		7				
2841 SOAP-----	43,644		43,644				
2851 PAINTS-----	121	31	90				
2861 GUM AND WOOD CHEMICALS-----	176,056				66,196		109,860
2870 INSECTICIDES, DISINFECTANTS-----	22		22				
2891 MISCELLANEOUS CHEMICAL PROD-----	33,586	52	33	14,301	19,200		
2911 GASOLINE-----	92,650				76,355	16,295	
2912 JET FUEL-----	63,918		30,984			32,978	
2915 DISTILLATE FUEL OIL-----	298,610		191,136		62,207	10,764	34,423
2916 RESIDUAL FUEL OIL-----	21,022				21,022		
2918 LUBRICATING OILS AND GREASES-----	40		40				
2919 ASPHALT, TAR, AND PITCHES-----	2,217	2,212	5				
2920 COKE, PETROLEUM COKE-----	6,634		6,634				
2991 PETROLEUM AND COAL PROD, NEC-----	40,417			6,194	27,223	7,000	
3011 RUBBER AND MISC PLASTIC PROD-----	42	23	19				
3111 LEATHER AND LEATHER PRODUCTS-----	136	2	134				
3211 GLASS AND GLASS PRODUCTS-----	43	2	41				
3241 BUILDING CEMENT-----	107,633					12,013	95,620
3251 STRUCTURAL CLAY PRODUCTS-----	63	55	8				
3281 CUT STONE AND STONE PRODUCTS-----	1		1				
3291 MISC NONMETALLIC MINERAL PROD-----	50	33	17				
3311 IRON, STEEL SHAPES, EXC SHEETS-----	779	779					
3312 IRON AND STEEL PLATES, SHEETS-----	1		1				
3317 IRON AND STEEL PIPE AND TUBE-----	162	154	8				
3319 IRON AND STEEL PRODUCTS, NEC-----	5		5				
3321 NONFERROUS METALS, NEC-----	121		121				
3322 COPPER ALLOYS, UNWORKED-----	26	24	2				
3323 LEAD AND ZINC, UNWORKED-----	172	24	146				
3324 ALUMINUM AND ALLOYS, UNWORKED-----	11,489		11,489				
3411 FABRICATED METAL PRODUCTS-----	258	166	92				
3511 MACHINERY, EXCEPT ELECTRICAL-----	272	115	157				
3611 ELECTRICAL MACH AND EQUIP-----	279	162	117				
3711 MOTOR VEHICLES, PARTS, EQUIP-----	92	90	2				
3731 SHIPS AND BOATS-----	45	44	1				
3791 MISC TRANSPORTATION EQUIPMENT-----	18	3	15				
3811 INSTR, TIME, PHOTO, OPT GOODS-----	16	1	15				
3911 MISC MANUFACTURED PRODUCTS-----	40	7	33				
4011 IRON AND STEEL SCRAP-----	186		186				
4012 NONFERROUS METAL SCRAP-----	141		141				
4022 TEXTILE WASTE, SCRAP, SHEEP-----	132		132				
4023 PAPER WASTE AND SCRAP-----	2,106		2,106				
4029 WASTE AND SCRAP, NEC-----	183,600					183,600	
4112 COMMODITIES, NEC-----	527	250	277				

**SEATTLE, WA, DISTRICT**

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#### OTHER HARBORS AND WATERWAYS

## Waterborne Commerce of the United States, 1986

## OTHER HARBORS AND WATERWAYS--CONTINUED

HARBOR OR WATERWAY	COMMODITY	TONS	TOTAL TON- MILES	PASSENGERS
<b>NONPROJECT--CONTINUED</b>				
OTHER PUGET SOUND AREA PORTS, WASH. (NET) (CONTINUED)	2851 PAINTS-----	24		
	2876 INSECTICIDES, DISINFECTANTS-----	5		
	2879 FERTILIZER AND MATERIALS, NEC-----	9		
	2891 MISCCELLANEOUS CHEMICAL PROD-----	210		
	2911 GASOLINE-----	255,030		
	2912 JET FUEL-----	345,600		
	2914 DISTILLATE FUEL OIL-----	661,445		
	2915 RESIDUAL FUEL OIL-----	897,276		
	2916 LUBRICATING OILS AND GREASES-----	76,944		
	2917 NAPHTHA, PETROLEUM SOLVENTS-----	3,160		
	2921 LIQUEFIED GASES-----	91,163		
	2991 PETROLEUM AND COAL PROD, NEC-----	42,279		
	3011 RUBBER AND MISC PLASTIC PROD-----	7		
	3111 LEATHER AND LEATHER PRODUCTS-----	111		
	3211 GLASS AND GLASS PROD,C/S-----	160		
	3291 MISC NON-METALLIC MINERAL PROD-----	1,216		
	3316 IRON AND STEEL PLATES, SHEETS-----	93		
	3317 IRON AND STEEL PIPE AND TUBE-----	1,300		
	3318 FERROALLOYS-----	39		
	3321 NONFERROUS METALS, NEC-----	170		
	3322 COPPER ALLOYS, UNWORKED-----	21		
	3324 ALUMINUM AND ALLOYS, UNWORKED-----	557		
	3411 FABRICATED METAL PRODUCTS-----	872		
	3511 MACHINERY, EXCEPT ELECTRICAL-----	1,607		
	3611 ELECTRICAL MACH AND EQUIP-----	74		
	3711 MOTOR VEHICLES, PARTS, EQUIP-----	647		
	3721 AIRCRAFT AND PARTS-----	0		
	3731 SHIPS AND BOATS-----	14		
	3791 MISC TRANSPORTATION EQUIPMENT-----	31		
	3811 INSTN, TIME, PHOTO, OPT GOODS-----	29		
	3911 MISC MANUFACTURED PRODUCTS-----	96		
	4011 IRON AND STEEL SCRAP-----	75		
	4012 NONFERROUS METAL SCRAP-----	545		
	4024 PAPER WASTE AND SCRAP-----	447		
	4029 WASTE AND SCRAP, NEC-----	159,230		
	4112 COMMODITIES, NEC-----	2,069		
	9999 DEPARTMENT OF DEFENSE AND SCI-----	101		
	<b>TOTAL-----</b>	<b>20,340,790</b>		<b>20,274,605</b>

# ALASKA DISTRICT

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## NETCHIKAN HARBOR, ALASKA

SECTION INCLUDED: TONGASS NARROWS FROM POINT HIGGINS ON THE NORTH TO MOUNTAIN POINT ON THE SOUTH AND INCLUDING HERRING RAY ON GEORGE INLET, CONTROLLING DEPTHS: MAIN HARBOUR, ADEQUATE; SMALL BOAT BASINS, NETCHIKAN CREEK, 10.0 FEET; BAR POINT, 15 FEET. PROJECT DEPTHS: NO PROJECT DEPTH FOR MAIN HARBOUR; SMALL BOAT BASINS, 10 AND 15 FEET. ALL DEPTHS REFER TO MLLW.

### COMPARATIVE STATEMENT OF TRAFFIC

YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS	ADDITIONAL TRAFFIC	
					GENERAL FERRY VEHICLES	PASSENGERS
1977-----	1,139,137	826,589	1,965,726	346,708	64,345	346,708
1978-----	1,293,351	679,483	1,972,834	325,836	40,733	325,836
1979-----	1,700,642	501,375	2,202,017	313,108	58,793	313,108
1980-----	1,695,318	671,857	2,767,173	371,930	80,053	371,930
1981-----	1,055,444	924,051	1,879,495	382,727	62,018	382,727
1982-----	1,473,009	292,010	1,765,019	393,573	42,825	393,573
1983-----	1,442,441	350,510	1,792,951	406,969	90,030	406,969
1984-----	1,516,027	175,689	1,691,696	706,557	153,163	704,557
1985-----	1,799,590	-----	1,799,590	625,161	129,232	125,161
1986-----	1,545,877	526,125	2,072,002	471,073	110,235	471,073

### FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC				LOCAL	
		IMPORTS	EXPORTS	COASTWISE		INTERNAL			
				RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS		
TOTAL-----	2,472,002	56,457	1,034,547	247,278	46,066	618,386	69,018	250	
0191 MISCELLANEOUS FARM PRODUCTS-----	952	-----	952	-----	-----	-----	-----	-----	
0911 FRESH FISH, EXCEPT SHELLFISH-----	7,536	-----	7,514	22	-----	-----	-----	-----	
1442 SAND, GRAVEL, CRUSHED ROCK-----	1,800	-----	-----	-----	-----	1,800	-----	-----	
1491 SALT-----	659	-----	659	-----	-----	-----	-----	-----	
1492 SULPHUR, DRY-----	8,042	-----	8,445	-----	-----	-----	197	-----	
2031 FISH AND SHELLFISH, PREPARED-----	4,110	-----	1,625	-----	2,555	30	-----	-----	
2049 GRAIN MILL PRODUCTS, NEC-----	23	-----	23	-----	-----	-----	-----	-----	
2081 ALCOHOLIC BEVERAGES-----	65	4	-----	61	-----	-----	-----	-----	
2094 GROCERIES-----	2,648	-----	-----	2,848	-----	-----	-----	-----	
2099 MISCELLANEOUS FOOD PRODUCTS-----	16,645	-----	-----	10,586	6,229	30	-----	-----	
2211 BASIC TEXTILE PRODUCTS-----	148	-----	18	125	5	-----	-----	-----	
2411 LOGS-----	867,229	54,166	812,924	54	85	-----	-----	-----	
2412 RAFTED LOGS-----	526,125	-----	-----	-----	-----	526,125	-----	-----	
2416 ADD'L CHIPS, STAVES, HOLDINGS-----	85,442	-----	-----	-----	-----	85,482	-----	-----	
2421 LUMBER-----	84,209	21	78,392	5,507	257	-----	-----	32	
2431 VENEER, PLYWOOD, WOODED WOOD-----	23	-----	-----	23	-----	-----	-----	34	
2491 WOOD MANUFACTURES, NEC-----	7,174	-----	6,977	163	202	7	-----	-----	
2511 FURNITURE AND FIXTURES-----	956	-----	-----	749	-----	-----	-----	-----	
2611 PULP-----	153,920	-----	126,086	-----	27,834	-----	-----	-----	
2691 PULP AND PAPER PRODUCTS, NEC-----	3,013	-----	-----	1,248	1,765	-----	-----	-----	
2810 SODIUM HYDROXIDE-----	29,600	-----	-----	29,600	-----	-----	-----	-----	
2819 BASIC CHEMICALS AND PROD, NEC-----	1,938	-----	-----	1,803	7	-----	128	-----	
2821 PLASTIC MATERIALS-----	16	-----	12	4	-----	-----	-----	-----	
2831 DRUGS-----	19	-----	19	-----	-----	-----	-----	-----	
2841 SOAP-----	90	-----	-----	90	-----	-----	-----	-----	
2879 FERTILIZER AND MATERIALS, NEC-----	31	-----	-----	30	-----	1	-----	-----	
2891 MISCELLANEOUS CHEMICAL PROD-----	8,103	-----	-----	7,899	3	62	139	-----	
2911 GASOLINE-----	41,350	-----	-----	26,315	-----	-----	15,035	-----	
2912 JET FUEL-----	9,294	-----	-----	9,294	-----	-----	-----	-----	
2914 DISTILLATE FUEL OIL-----	119,414	-----	-----	71,565	-----	-----	47,849	-----	
2915 RESIDUAL FUEL OIL-----	14,180	-----	-----	13,414	-----	-----	766	-----	
2916 LUBRICATING OILS AND GREASES-----	28,398	-----	-----	28,398	-----	-----	-----	-----	
2921 LIQUEFIED GASES-----	629	269	-----	560	-----	-----	-----	-----	
2951 ASPHALT BUILDING MATERIALS-----	34	-----	-----	34	-----	-----	-----	-----	
2991 PETROLEUM AND COAL PROD, NEC-----	1,442	-----	1	1,385	56	-----	-----	-----	
3011 RUBBER AND MISC PLASTIC PROD-----	473	-----	-----	420	53	-----	-----	-----	
3241 BUILDING CEMENT-----	3,703	1,000	-----	2,702	-----	-----	1	-----	
3291 MISC NONMETALLIC MINERAL PROD-----	949	910	-----	5	-----	-----	-----	34	
3315 IRON, STEEL SHAPES, EXC SHEET-----	350	-----	-----	350	-----	-----	-----	-----	
3317 IRON AND STEEL PIPE AND TUBE-----	203	-----	-----	203	-----	-----	-----	-----	
3411 FABRICATED METAL PRODUCTS-----	11,627	4	121	9,928	1,774	-----	-----	-----	
3511 MACHINERY, EXCEPT ELECTRICAL-----	16,108	53	546	4,157	1,962	4,732	4,558	100	
3611 ELECTRICAL MACH AND EQUIP-----	546	1	-----	545	-----	-----	-----	-----	
3711 MOTOR VEHICLES, PARTS, EQUIP-----	2,573	1	193	1,823	266	100	170	20	
3731 SHIPS AND BOATS-----	44	5	-----	31	8	-----	-----	-----	
3791 MISC TRANSPORTATION EQUIPMENT-----	37	-----	-----	37	-----	-----	-----	-----	
3811 INSTR, TIME, PHOTO, OPT GOODS-----	40	-----	40	-----	-----	-----	-----	-----	
3911 MISC MANUFACTURED PRODUCTS-----	1,716	-----	-----	1,703	13	-----	-----	-----	
4011 IRON AND STEEL SCRAP-----	1,121	-----	-----	-----	1,121	-----	-----	-----	
4112 COMMODITIES, NEC-----	5,632	23	156	3,541	1,720	17	175	-----	
4119 EMPTY CONTAINERS-----	181	-----	-----	151	-----	-----	30	-----	

## Waterborne Commerce of the United States, 1986

## WRANGELL HARBOR, ALASKA

SECTION INCLUDED: SHORELINE OF WRANGELL ISLAND FROM THE AIRPLANE LANDING NEAR THE BASE OF POINT SHEKESKI TO POINT HIGHFIELD ON THE NORTH. CONTROLLING DEPTHS: MAIN AND INNER HARBOR 10 FEET. PROJECT DEPTHS: BOTH MOORING BASINS, 10 FEET AT MLLW.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS	ADDITIONAL TRAFFIC	
					GENERAL VEHICLES	FERRY PASSENGERS
1977-----	404,556	225,172	629,728	13,545	3,355	13,545
1978-----	302,127	204,695	506,822	15,076	3,502	15,076
1979-----	306,884	-----	308,884	7,701	1,713	7,701
1980-----	446,735	103,703	550,498	16,793	3,878	16,793
1981-----	310,966	323,727	642,693	15,381	3,683	15,381
1982-----	553,765	41,531	595,296	17,014	4,028	17,014
1983-----	333,173	253,441	586,614	16,261	3,966	16,261
1984-----	225,368	30,594	253,962	22,029	4,228	22,029
1985-----	272,934	91,688	364,622	5,044	-----	5,044
1986-----	380,198	6,095	386,293	29,944	6,436	29,944

## FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC				LOCAL	
		IMPORTS	EXPORTS	COASTWISE		INTERNAL			
				RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS		
TOTAL-----	386,293	9,453	153,749	13,805	10,183	25,368	173,730	5	
0191 MISCELLANEOUS FARM PRODUCTS-----	78	-----	78	-----	-----	-----	-----	-----	
0911 FRESH FISH, EXCEPT SHELLFISH-----	116	116	126	-----	12,715	-----	-----	-----	
1402 SAND, GRAVEL, CRUSHED ROCK-----	12,841	-----	57	57	-----	-----	-----	-----	
1491 SALT-----	57	-----	-----	-----	-----	-----	-----	-----	
2031 FISH AND SHELLFISH, PREPARED-----	1,838	16	382	1,822	-----	-----	-----	-----	
2094 GROCERIES-----	382	-----	3,463	-----	-----	-----	30	-----	
2099 MISCELLANEOUS FOOD PRODUCTS-----	3,493	-----	6	6	-----	-----	-----	-----	
2211 BASIC TEXTILE PRODUCTS-----	6	-----	-----	-----	-----	-----	-----	-----	
2411 LOGS-----	42,803	3,804	38,990	-----	-----	-----	-----	-----	
2412 RAFTED LOGS-----	6,095	-----	-----	-----	3,939	2,156	-----	-----	
2414 TIMBER, POSTS, POLES, PILING-----	13	-----	13	-----	-----	-----	-----	-----	
2415 PULPWOOD, LOG-----	9,019	5,649	-----	-----	-----	3,370	-----	-----	
2416 WOOD CHIPS, STAVES, HOLDINGS-----	166,403	-----	-----	-----	-----	166,483	-----	-----	
2421 LUMBER-----	122,950	-----	114,613	1,416	6,929	-----	-----	-----	
2431 VENEER, PLYWOOD, WORKED WOOD-----	7	-----	7	7	-----	-----	-----	-----	
2491 WOOD MANUFACTURES, NEC-----	445	-----	445	-----	-----	-----	-----	-----	
2511 FURNITURE AND FIXTURES-----	117	-----	95	22	-----	-----	-----	-----	
2631 PAPER AND PAPERBOARD-----	5	-----	5	-----	-----	-----	-----	-----	
2691 PULP AND PAPER PRODUCTS, NEC-----	26	-----	26	-----	-----	-----	-----	-----	
2711 PRINTED MATTER-----	16	-----	16	-----	-----	-----	-----	-----	
2819 BASIC CHEMICALS AND PROD, NEC-----	248	-----	248	-----	-----	-----	-----	-----	
2821 PLASTIC MATERIALS-----	64	-----	64	-----	-----	-----	-----	-----	
2851 PAINTS-----	15	-----	7	6	2	-----	-----	-----	
2891 MISCELLANEOUS CHEMICAL PROD-----	7	-----	-----	-----	7	-----	-----	-----	
2911 GASOLINE-----	1,416	-----	34	-----	1,382	4,944	-----	-----	
2914 DISTILLATE FUEL OIL-----	4,948	-----	-----	-----	77	-----	-----	-----	
2915 RESIDUAL FUEL OIL-----	77	-----	50	-----	-----	-----	-----	-----	
2916 LUBRICATING OILS AND GREASES-----	50	-----	50	-----	-----	-----	-----	-----	
2918 ASPHALT, TAR, AND PITCHES-----	2,000	-----	2,000	-----	-----	-----	-----	-----	
2921 LIQUEFIED GASES-----	23	-----	23	-----	-----	-----	-----	-----	
2991 PETROLEUM AND COAL PROD, NEC-----	142	-----	142	-----	-----	-----	-----	-----	
3011 RUBBER AND MISC PLASTIC PROD-----	52	-----	49	3	-----	-----	-----	-----	
3201 BUILDING CEMENT-----	1,208	-----	1,208	-----	-----	-----	-----	-----	
3251 STRUCTURAL CLAY PRODUCTS-----	50	-----	50	-----	-----	-----	-----	-----	
3291 MISC NONMETALLIC MINERAL PROD-----	289	-----	289	-----	-----	-----	-----	-----	
3319 IRON AND STEEL PRODUCTS, NEC-----	20	-----	20	-----	-----	-----	-----	-----	
3411 FABRICATED METAL PRODUCTS-----	2,305	-----	2,189	116	-----	-----	-----	5	
3511 MACHINERY, EXCEPT ELECTRICAL-----	5,110	2	461	739	2,287	1,616	-----	-----	
3611 ELECTRICAL MACH AND EQUIP-----	84	-----	84	-----	-----	-----	-----	-----	
3711 MOTOR VEHICLES, PARTS, EQUIP-----	670	-----	220	401	9	-----	-----	-----	
3751 SHIPS AND BOATS-----	2	-----	2	-----	-----	75	-----	-----	
3791 MISC TRANSPORTATION EQUIPMENT-----	76	-----	1	-----	-----	-----	-----	-----	
3911 MISC MANUFACTURED PRODUCTS-----	205	-----	194	11	-----	-----	-----	-----	
4112 COMMODITIES, NEC-----	343	3	335	3	2	-----	-----	-----	
4119 EMPTY CONTAINERS-----	91	-----	-----	91	-----	-----	-----	-----	

## WRANGELL NARROWS, ALASKA

SECTION INCLUDED: ENTIRE 24 MILE LONG WATERWAY. CONTROLLING DEPTHS: 26 FEET IN THE ANCHORAGE BASIN AND 24 FEET IN THE AUTHORIZED CHANNEL WITH EXCEPTION OF THE AREA NEAR COLORADO REEF WHERE A DEPTH OF 21.6 FEET EXISTS. PROJECT DEPTHS: 27 FEET THROUGH PETERSBURG BAR; 26 FEET IN ANCHORAGE BASIN, VICINITY OF MILE 149; ALL OTHER, 24 FEET. ALL DEPTHS REFER TO MLLW.

## COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1977-----	631,073	83,431	714,504	1982-----	545,367	16,426	561,793
1978-----	569,631	388,420	958,055	1983-----	543,913	-----	543,913
1979-----	583,939	21,263	605,202	1984-----	687,861	103,534	791,395
1980-----	710,908	299,157	1,010,065	1985-----	688,980	92,218	751,198
1981-----	595,969	108,998	744,967	1986-----	542,956	4,782	547,738

\* PASSENGERS--64,013.

## ALASKA DISTRICT

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WRANGELL NARROWS, ALASKA--CONTINUED

FREIGHT TRAFFIC, 1986

## DOMESTIC

(SHORT TUNS)

COMMODITY	TOTAL	COASTWISE			INTERNAL				
		RECEIPTS	SHIPMENTS	THROUGH		INBOUND	OUTBOUND	THROUGH	
				UPBOUND	DOWNBOUND			UPWARD	DOWNWARD
TOTAL-----	587,738	12,220	18,033	207,810	55,218	9,607	10,765	225,125	8,961
0122 HAY AND FORAGE-----	272			272					
0131 FRESH FRUITS-----	25			20	5				
0141 FRESH AND FROZEN VEGETABLES-----	24			19	5				
0191 MISCELLANEOUS FARM PRODUCTS-----	116	44		72					
0861 FOREST PRODUCTS, NEC-----	170			170					
0911 FRESH FISH, EXCEPT SHELLFISH-----	567	15	273	125	158				
1442 SAND, GRAVEL, CRUSHED ROCK-----	221	21		115	65				
1451 CLAY-----	15			15					
1491 SALT-----	748	264		466	18				
1492 SULPHUR, DRY-----	8,690			8,293	200			197	
1499 NONMETALLIC MINERALS, NEC-----	1			1					
2011 MEAT, FRESH, CHILLED, FROZEN-----	22	1		9	12				
2031 FISH AND SHELLFISH, PREPARED-----	22,782		7,710	997	14,075				
2039 PREP FRUIT AND VEG JUICE, NEC-----	26			6	20				
2042 ANIMAL FEEDS-----	254			254					
2049 GRAIN MILL PRODUCTS, NEC-----	5			5					
2081 ALCOHOLIC BEVERAGES-----	5,921	24		5,897					
2094 GROCERIES-----	24,286	1,242		23,017	27				
2099 MISCELLANEOUS FOOD PRODUCTS-----	2,950	619	40	2,091					
2211 BASIC TEXTILE PRODUCTS-----	29	9		20					
2412 RAFTED LOGS-----	4,782							2,156	2,626
2414 TIMBER, POSTS, POLES, PILING-----	29			23	6				
2415 PULPAWOOD, LOG-----	16,660			1,346				15,332	
2421 WOOD CHIPS, STAVES, HOLDINGS-----	171,145						10,345	160,800	
2431 LUMBER-----	16,046	2,048	8,724	5,155	119				
2431 VENEER, PLYWOOD, WORKED WOOD-----	1,207	26		1,174	7				
2491 WOOD MANUFACTURE, NEC-----	4,192	87		3,541	524				
2511 FURNITURE AND FIXTURES-----	1,207	98	38	742	322				7
2611 PULP-----	30,294				30,294				
2621 STANDARD NEWSPRINT PAPER-----	118			118					
2691 PULP AND PAPER PRODUCTS, NEC-----	1,230	68		1,125	37				
2711 PRINTED MATTER-----	32			16	16				
2810 SOUDIUM HYDROXIDE-----	22,711			22,711					
2819 BASIC CHEMICALS AND PROD, NEC-----	1,394	286		964	16			128	
2821 PLASTIC MATERIALS-----	17			17					
2841 SOAP-----	145			145					
2851 PAINTS-----	330			327	1				2
2871 NITROGENOUS CHEM FERTILIZERS-----	121			121					
2879 FERTILIZERS AND MATERIALS, NEC-----	483	9		483	3			28	
2891 MISCELLANEOUS CHEMICAL PROD-----	10,613			8,746	23			1,714	130
2911 GASOLINE-----	17,155	85		3,699	684	5		11,170	832
2912 JET FUEL-----	1,581	226		1,355					
2914 DISTILLATE FUEL OIL-----	50,782	412		9,638	148	8,508		29,214	2,862
2915 RESIDUAL FUEL OIL-----	14,297			13,426	174	157		494	46
2916 LUBRICATING OILS AND GREASES-----	49,571	66		49,503					
2921 LIQUEFIED GASES-----	121			112	9				
2951 ASPHALT BUILDING MATERIALS-----	104			99	5				
2991 PETROLEUM AND COAL PROD, NEC-----	425	43	9	322	51				
3011 RUBBER AND MISC PLASTIC PROD-----	78	28		50					
3211 GLASS AND GLASS PRODUCTS-----	28			20					
3241 BUILDING CEMENT-----	3,191	1,959	1	1,083	148				
3251 STRUCTURAL CLAY PRODUCTS-----	100			71	29				
3271 LIME-----	41			41					
3281 CUT STONE AND STONE PRODUCTS-----	148			144					
3291 MISC NONMETALLIC MINERAL PROD-----	5,105	172		4,910	23				
3314 IRON AND STEEL PRIMARY FORMS-----	3	3							
3315 IRON, STEEL SHAPES, EXC SHEET-----	183			143					
3317 IRON AND STEEL PIPE AND TUBE-----	134	1		131	2				
3319 IRON AND STEEL PRODUCTS, NEC-----	92	2		71	20				
3322 COPPER ALLOYS, UNWORKED-----	15			10					
3411 FABRICATED METAL PRODUCTS-----	6,259	2,477	430	2,772	536				44
3511 MACHINERY, EXCEPT ELECTRICAL-----	9,401	307	522	1,235	1,158	30	420	3,689	2,240
3611 ELECTRICAL MACH AND EQUIP-----	248	106	2	91	49				
3711 MOTOR VEHICLES, PARTS, EQUIP-----	3,209	353	88	1,638	800			200	134
3731 SHIPS AND BOATS-----	236	4		140	92				
3791 MISC TRANSPORTATION EQUIPMENT-----	461	2		274	85			100	
3911 MISC MANUFACTURED PRODUCTS-----	279	248	6	23	2				
4011 IRON AND STEEL SCRAP-----	481				481				
4112 COMMODITIES, NEC-----	33,156	662	184	28,337	3,833			103	37
4113 LCL FREIGHT-----	8			8					
4119 EMPTY CONTAINERS-----	989		10	32	947				
TOTAL TON-MILES-----	12,909,478								

## KAKE HARBOR, ALASKA

SECTION INCLUDED: BASIN 7-ACRE BERTHING AREA, 15 FEET DEEP, INCLOSED BY A 1,580-FOOT HEAVY ROCK BREAKWATER AND A 900-FOOT SOUTH ROCK BREAKWATER.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1977-----	3,883	4,822	1982-----	5,769	7,376
1978-----	2,702	4,905	1983-----	121,544	0,084
1979-----	5,947	5,376	1984-----	78,654	7,135
1980-----	61,842	6,852	1985-----	94,898	-----
1981-----	47,103	7,017	1986-----	274,750	11,104

## Waterborne Commerce of the United States, 1986

KAKE HARBOR, ALASKA--CONTINUED

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		
		EXPORTS	COASTWISE		INTERNAL	
			RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS
TOTAL-----	274,758	45,498	1,287	1,090	203,533	23,350
0911 FRESH FISH, EXCEPT SHELLFISH-----		154	-----	154	-----	-----
2031 FISH AND SHELLFISH, PREPARED-----		896	-----	896	-----	-----
2411 LOGS-----		45,498	45,498	-----	-----	-----
2412 RAFTED LOGS-----		223,286	-----	-----	201,455	21,831
2891 MISCELLANEOUS CHEMICAL PROD-----		64	-----	64	-----	-----
2911 GASOLINE-----		96	-----	96	-----	-----
2914 DISTILLATE FUEL OIL-----		1,128	-----	1,128	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----		2,327	-----	2,327	806	1,519
4112 COMMODITIES, NEC-----		1,327	1,287	40	-----	-----

SITKA HARBOR, ALASKA

SECTION INCLUDED: FROM THE ALASKA LUMBER & PULP CO. MILL IN SILVER BAY ON THE SOUTH TO STARRIGAVEN BAY ON THE NORTH INCLUDING THE SITKA CENTRAL WATERFRONT AND JAPONSKI ISLAND. CONTROLLING DEPTHS: 22 FEET AT MLLW IN WESTERN CHANNEL AND 11 FEET IN SMALL BOAT BASIN. PROJECT DEPTHS: 22 FEET IN WESTERN CHANNEL, 10 FEET IN SMALL BOAT BASIN AND APPROACH CHANNEL. ALL DEPTHS REFER TO MLLW.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS	YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS
1977-----	551,405	3,889	555,294	16,757	1982-----	395,356	-----	395,356	26,996
1978-----	504,184	384,143	888,327	20,420	1983-----	508,119	-----	508,119	35,376
1979-----	526,827	-----	520,827	11,666	1984-----	594,203	305,556	899,759	38,605
1980-----	653,229	361,146	1,014,375	32,196	1985-----	378,280	314,788	693,068	65,204
1981-----	534,276	389,835	924,111	33,089	1986-----	582,835	133,716	716,551	64,391

## ADDITIONAL TRAFFIC

YEAR	CAR FERRY-RAILROAD CARS			GENERAL FERRY		YEAR	CAR FERRY-RAILROAD CARS			GENERAL FERRY	
	EMPTY	LOADED	TOTAL	VEHICLES	PASSENGERS		EMPTY	LOADED	TOTAL	VEHICLES	PASSENGERS
1977-----	-----	-----	-----	4,053	16,757	1982-----	-----	-----	-----	4,702	26,996
1978-----	-----	-----	-----	4,674	20,420	1983-----	-----	-----	-----	6,657	35,376
1979-----	-----	-----	-----	2,276	11,666	1984-----	-----	-----	-----	7,050	38,605
1980-----	-----	-----	-----	6,092	32,196	1985-----	-----	-----	-----	-----	65,204
1981-----	-----	-----	-----	6,455	33,089	1986-----	-----	-----	-----	11,940	64,391

\* CARGO REPORTED AS FREIGHT TRAFFIC.

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC	
		IMPORTS	EXPORTS	COASTWISE	
				RECEIPTS	SHIPMENTS
TOTAL-----	716,551	98,552	110,370	143,619	39,360
0911 FRESH FISH, EXCEPT SHELLFISH-----		9,054	8,954	50	50
1442 SAND, GRAVEL, CRUSHED ROCK-----		6,125	-----	-----	-----
1491 SALT-----		23	-----	23	-----
1492 SULPHUR, DRY-----		8,690	-----	8,293	200
1493 NONMETALLIC MINERALS, NEC-----		1	-----	1	-----
2011 MEAT, FRESH, CHILLED, FROZEN-----		15	-----	15	-----
2031 FISH AND SHELLFISH, PREPARED-----		5,911	99	5,765	47
2039 PREP FRUIT AND VEG JUICE, NEC-----		24	-----	24	-----
2042 ANIMAL FEEDS-----		16	-----	16	-----
2081 ALCOHOLIC BEVERAGES-----		140	-----	140	-----
2094 GROCERIES-----		4,496	-----	4,496	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----		2,225	-----	2,173	52
2412 RAFTED LOGS-----		133,716	-----	-----	133,716
2415 PULPWOOD, LOG-----		128,862	91,626	16,849	20,387
2418 WOOD CHIPS, STAVES, HOLDINGS-----		160,800	-----	-----	160,800
2421 LUMBER-----		1,576	-----	1,405	121
2431 VENEER, PLYWOOD, WORKED WOOD-----		246	-----	246	-----
2491 WOOD MANUFACTURES, NEC-----		1,351	-----	1,322	29
2511 FURNITURE AND FIXTURES-----		180	-----	159	12
2611 PULP-----		131,608	101,314	30,294	-----
2621 STANDARD NEWSPRINT PAPER-----		13	-----	13	-----
2691 PULP AND PAPER PRODUCTS, NEC-----		665	-----	665	-----
2810 SODIUM HYDROXIDE-----		22,711	-----	22,711	-----
2819 BASIC CHEMICALS AND PROD, NEC-----		1,035	-----	805	128
2841 SOAP-----		130	-----	130	22
2851 PAINTS-----		8	-----	8	-----
2871 NITROGENOUS CHEM FERTILIZERS-----		62	-----	62	-----
2879 FERTILIZER AND MATERIALS, NEC-----		132	-----	132	-----
2891 MISCELLANEOUS CHEMICAL PROD-----		8,881	-----	8,692	189
2911 GASOLINE-----		3,178	-----	1,661	1,517
2912 JET FUEL-----		1,769	-----	1,769	-----

## ALASKA DISTRICT

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## SITKA HARBOR, ALASKA--CONTINUED

## FREIGHT TRAFFIC, 1986--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		INTERNAL	
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS
2914 DISTILLATE FUEL OIL-----	11,028	-----	-----	4,120	-----	6,853	55
2915 RESIDUAL FUEL OIL-----	11,342	-----	-----	10,794	174	424	-----
2916 LUBRICATING OILS AND GREASES-----	49,180	-----	-----	49,180	-----	-----	-----
2951 ASPHALT BUILDING MATERIALS-----	31	-----	-----	30	1	-----	-----
2991 PETROLEUM AND COAL PROD, NEC-----	314	-----	-----	314	-----	-----	-----
3011 RUBBER AND RINC PLASTIC PROD-----	31	1	-----	30	-----	-----	-----
3241 BUILDING CEMENT-----	1,382	800	-----	582	-----	-----	-----
3251 STRUCTURAL CLAY PRODUCTS-----	5	-----	-----	5	-----	-----	-----
3291 MISC NONMETALLIC MINERAL PROD-----	1,105	-----	-----	1,086	19	-----	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	8	-----	-----	8	-----	-----	-----
3317 IRON AND STEEL PIPE AND TUBE-----	19	-----	-----	6	-----	13	-----
3319 IRON AND STEEL PRODUCTS, NEC-----	5	-----	-----	5	-----	-----	-----
3411 FABRICATED METAL PRODUCTS-----	952	-----	-----	809	66	13	44
3511 MACHINERY, EXCEPT ELECTRICAL-----	452	-----	-----	251	117	25	59
3611 ELECTRICAL MACH AND EQUIP-----	5	-----	-----	5	-----	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	435	-----	-----	360	38	-----	37
3731 SHIPS AND BOATS-----	43	-----	-----	36	7	-----	-----
3791 MISC TRANSPORTATION EQUIPMENT-----	48	-----	-----	47	1	-----	-----
3911 MISC MANUFACTURED PRODUCTS-----	3	-----	-----	3	-----	-----	-----
4011 IRON AND STEEL SCRAP-----	276	-----	-----	276	-----	-----	-----
4112 COMMODITIES, NEC-----	6,063	-----	3	4,120	1,937	3	-----
4119 EMPTY CONTAINERS-----	181	-----	-----	-----	161	-----	-----

## SERGIUS AND WHITESTONE NARROWS, ALASKA

SECTION INCLUDES CHANNELS THROUGH SERGIUS AND WHITESTONE NARROWS. CONTROLLING DEPTHS: PROJECT DEPTH AVAILABLE EXCEPT FOR PINNACLES TO 23.5 FEET AT WEST FRANCIS ROCK (SERGIUS NARROWS). PROJECT DEPTH: 24 FEET.

## COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1977-----	378,571	3,689	382,460	1982-----	261,131	-----	261,131
1978-----	328,885	384,143	713,026	1983-----	240,334	-----	248,334
1979-----	354,119	-----	354,119	1984-----	365,690	261,456	627,146
1980-----	540,676	361,146	901,824	1985-----	297,993	314,788	612,781
1981-----	334,072	221,407	555,479	1986-----	385,089	133,716	518,805

\* PASSENGERS=26,853.

## FREIGHT TRAFFIC, 1986

## DOMESTIC

(SHORT TONS)

COMMODITY	TOTAL	COASTWISE		INTERNAL	
		NORTHBOUND	SOUTHBOUND	NORTHBOUND	SOUTHBOUND
TOTAL-----	518,805	50,990	134,682	7,155	325,978
0131 FRESH FRUITS-----	18	9	9	-----	-----
0141 FRESH AND FROZEN VEGETABLES-----	14	7	7	-----	-----
0911 FRESH FISH, EXCEPT SHELLFISH-----	136	43	93	-----	-----
1402 SAND, GRAVEL, CRUSHED ROCK-----	212	106	106	-----	-----
1491 SALT-----	607	312	295	-----	-----
1492 SULPHUR, CHALK-----	8,690	200	8,293	-----	197
1499 NONMETALLIC MINERALS, NEC-----	1	-----	1	-----	-----
2011 MEAT, FRESH, CHILLED, FROZEN-----	14	13	1	-----	-----
2031 FISH AND SHELLFISH, PREPARED-----	13,485	9,694	3,744	47	-----
2039 PULP, FAJIT AND VEG JUICE, NEC-----	20	20	-----	-----	-----
2042 ANIMAL FEEDS-----	28	8	16	-----	-----
2081 ALCOHOLIC BEVERAGES-----	168	14	154	-----	-----
2091 SPICES-----	6,006	755	5,251	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	580	38	542	-----	-----
2112 RAFTED LOGS-----	133,716	-----	-----	-----	133,716
2411 TIMBER, PIGTS, POLES, PILING-----	12	6	6	-----	-----
2415 PULPWOOD, LUG-----	16,680	-----	1,348	-----	15,332
2416 WOOD CHIPS, CHAVES, HOLDINGS-----	160,800	-----	-----	-----	160,800
2421 LUMBER-----	2,001	438	1,513	50	-----
2431 VENEER, PLYWOOD, WORKED WOOD-----	310	32	278	-----	-----
2491 WOOD MANUFACTURES, NEC-----	1,707	842	865	-----	-----
2511 FURNITURE AND FIXTURES-----	619	255	341	16	7
2611 PULP-----	30,294	30,294	-----	-----	-----
2651 PULP AND PAPER PRODUCTS, NEC-----	684	37	607	-----	-----
2711 PRINTED MATTER-----	32	16	16	-----	-----
2810 SODIUM HYDROXIDE-----	22,711	-----	22,711	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	1,067	16	901	22	128
2841 SHAPES-----	130	-----	130	-----	-----
2851 PAINTS-----	25	7	15	-----	5
2871 NITROGENOUS CHEM FERTILIZERS-----	62	-----	62	-----	-----
2879 FERTILIZED AND MATERIALS, NEC-----	144	6	138	-----	-----
2991 MISCELLANEOUS CHEMICAL PROD-----	8,903	-----	8,692	11	200
2911 GASOLINE-----	8,963	-----	8,412	1,017	2,530
2912 JET FUEL-----	1,287	-----	1,287	-----	-----
2914 DISTILLATE FUEL OIL-----	21,975	-----	3,823	5,677	12,475

## Waterborne Commerce of the United States, 1986

SERGIUS AND WHITESTONE NARROWS, ALASKA--CONTINUED  
 FREIGHT TRAFFIC, 1986--CONTINUED  
 DOMESTIC--CONTINUED  
 (SHORT TONS)

COMMODITY	TOTAL	COASTWISE		INTERNAL	
		NORTHBOUND	SOUTHBOUND	NORTHBOUND	SOUTHBOUND
2915 RESIDUAL FUEL OIL-----	11,564	174	10,744	111	535
2916 LUBRICATING OILS AND GREASES-----	49,180	-----	49,160	-----	-----
2921 LIQUEFIED GASES-----	26	14	14	-----	-----
2951 ASPHALT BUILDING MATERIALS-----	35	5	30	-----	-----
2991 PETROLEUM AND COAL PROD, NEC-----	120	45	75	-----	-----
3011 RUBBER AND MISC PLASTIC PROD-----	66	18	48	-----	-----
3241 BUILDING CEMENT-----	2,754	1,086	1,668	-----	-----
3251 STRUCTURAL CLAY PRODUCTS-----	63	29	34	-----	-----
3291 MISC NONMETALLIC MINERAL PROD-----	1,050	372	678	-----	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	24	8	16	-----	-----
3317 IRON AND STEEL PIPE AND TUBE-----	39	16	16	13	-----
3319 IRON AND STEEL PRODUCTS, NEC-----	33	14	19	-----	-----
3411 FABRICATED METAL PRODUCTS-----	2,989	1,137	1,795	44	13
3511 MACHINERY, EXCEPT ELECTRICAL-----	1,975	898	1,008	43	26
3611 ELECTRICAL MACH AND EQUIP-----	108	46	62	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	1,355	468	836	42	9
3731 SHIPS AND BOATS-----	201	79	122	-----	-----
3791 MISC TRANSPORTATION EQUIPMENT-----	206	74	132	-----	-----
3911 MISC MANUFACTURED PRODUCTS-----	7	2	5	-----	-----
4011 IRON AND STEEL SCRAP-----	631	452	179	-----	-----
4112 COMMODITIES, NEC-----	7,926	2,616	5,307	-----	3
4119 EMPTY CONTAINERS-----	354	275	79	-----	-----

## SKAGWAY HARBOR, ALASKA

SECTION INCLUDED: ENTIRE WATER FRONT OF SKAGWAY HARBOR, CONTROLLING DEPTH: MAIN HARBOR, ADEQUATE, DEPTH ALONGSIDE THE WHITE PASS AND YUKON RAILWAY WHARF, 19.0 FEET; 10.9 FEET IN SMALL BOAT BASINS 42.5 FEET AT PACIFIC AND ARTIC RAILWAY NAVIGATION COMPANY DRY TERMINAL; 20 FEET AT ALASKA STATE FERRY DOCK, PROJECT DEPTH: MAIN HARBOR, 30 FEET ALONG SOUTHERLY 700 FEET OF FACE OF DOCK AND 20 FEET FOR THE NEXT 100 FEET; SMALL BOAT BASIN, 6 FEET FOR FEDERAL PORTION, 12 FEET MAINTAINED BY LOCAL INTERESTS. ALL DEPTHS REFER TO MLLW.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS	ADDITIONAL TRAFFIC	
					GENERAL FERRY VEHICLES	PASSENGERS
1977-----	1,026,448	-----	1,026,448	77,058	5,458	77,058
1978-----	906,287	-----	906,289	187,637	5,612	187,637
1979-----	800,207	-----	800,207	101,732	3,891	101,732
1980-----	1,085,060	-----	1,085,060	153,752	5,362	153,572
1981-----	1,118,804	-----	1,118,804	52,538	8,652	52,538
1982-----	510,027	-----	510,027	91,859	10,722	91,859
1983-----	157,631	-----	157,631	59,514	9,048	59,514
1984-----	171,529	-----	171,529	132,885	11,336	132,885
1985-----	101,403	-----	101,403	5,044	-----	5,044
1986-----	639,897	-----	639,897	98,467	-----	98,467

## FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		
		IMPORTS	EXPORTS	COASTWISE		INTERNAL
				RECEIPTS	SHIPMENTS	RECEPPTS
TOTAL-----	639,897	234,257	399,902	5,512	40	186
0911 FRESH FISH, EXCEPT SHELLFISH-----	1	-----	-----	1	-----	-----
1091 NONFERROUS ORES, CONCENT, NEC-----	399,881	-----	399,881	-----	1	-----
2081 ALCOHOLIC BEVERAGES-----	948	-----	948	-----	-----	-----
2094 GROCERIES-----	81	-----	-----	81	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	1	-----	-----	1	-----	-----
2421 LUMBER-----	15	-----	-----	15	-----	-----
2491 WOOD MANUFACTURES, NEC-----	11	-----	-----	11	-----	-----
2511 FURNITURE AND FIXTURES-----	1	-----	-----	1	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	21	-----	21	-----	-----	-----
2851 PAINTS-----	72	-----	72	-----	-----	-----
2891 MISCELLANEOUS CHEMICAL PROD-----	36	-----	-----	-----	36	-----
2911 GASOLINE-----	63,749	62,753	-----	946	-----	-----
2912 JET FUEL-----	8,669	8,669	-----	-----	-----	-----
2914 DISTILLATE FUEL OIL-----	163,125	159,941	-----	3,180	-----	-----
2916 LUBRICATING OILS AND GREASES-----	17	-----	-----	17	-----	-----
3291 MISC NONMETALLIC MINERAL PROD-----	11	-----	-----	11	-----	-----
3411 FABRICATED METAL PRODUCTS-----	95	-----	-----	95	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	164	-----	-----	14	-----	150
3711 MOTOR VEHICLES, PARTS, EQUIP-----	5	5	-----	-----	-----	-----
4112 COMMODITIES, NEC-----	2,956	2,884	-----	65	2	-----
4119 EMPTY CONTAINERS-----	38	-----	-----	-----	38	-----

## ALASKA DISTRICT

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## VALDEZ HARBOR, ALASKA

SECTION INCLUDED: ENTIRE WATERFRONT FROM POINT OF LAND WEST OF FERRY TERMINAL EASTERLY TO ALASKA HYDROTRAIN DOCK, EASTERN PART OF PORT VALDEZ FROM THE FERRY TERMINAL ON THE NORTH TO THE TRANS-ALASKA PIPELINE TERMINAL ON THE SOUTH. CONTROLLING DEPTH: 12 FEET IN THE SMALL BASIN. PROJECT DEPTH: 12 FEET, EXCEPT 20 FEET AT FERRY TERMINAL, 50 FEET OFF THE CITY DOCK, 75 FEET OFF THE VALDEZ DOCK, AND 0.0 AT SONTAG & ALASKA HYDROTRAIN FACILITIES. ALL DEPTHS REFER TO MLLW.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977-----	10,666,972	1982-----	90,158,462
1978-----	55,551,933	1983-----	93,536,165
1979-----	65,452,418	1984-----	92,047,493
1980-----	65,973,086	1985-----	99,624,406
1981-----	64,842,603	1986-----	101,118,169

\* PASSENGERS--48,661.

## FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC	
		IMPORTS	COASTWISE		INTERNAL
			RECEIPTS	SHIPMENTS	
TOTAL-----	101,118,169	2,626	44,251	101,068,453	2,839
1311 CRUDE PETROLEUM-----	101,032,320			101,032,320	
1442 SAND, GRAVEL, CRUSHED ROCK-----	2,100				2,100
2099 MISCELLANEOUS FOOD PRODUCTS-----	59		59		
2421 LUMBER-----	676		662	14	
2491 4000 MANUFACTURES, NEC-----	988		975	13	
2911 GASOLINE-----	18,053		8,900	5,153	
2912 JET FUEL-----	4,867		2,035	2,832	
2914 DISTILLATE FUEL OIL-----	50,375		24,586	25,050	739
2915 RESIDUAL FUEL OIL-----	2,131			2,131	
2991 PETROLEUM AND COAL PROD, NEC-----	537		537		
3291 MISC NONMETALLIC MINERAL PROD-----	1,178		1,165	13	
3317 IRON AND STEEL PIPE AND TUBE-----	2,626				
3511 MACHINERY, EXCEPT ELECTRICAL-----	5,236		4,580	646	
3711 MOTOR VEHICLES, PARTS, EQUIP-----	532		532		
4011 IRON AND STEEL SCRAP-----	6			6	
4112 COMMODITIES, NEC-----	485		212	273	

## SEWARD HARBOR, ALASKA

SECTION INCLUDED: ALASKA RAILROAD DOCK AND THE SEWARD BOAT BASIN INCLUDING THE CITY DOCK, CONTROLLING DEPTH: 35 FEET BELOW MEAN LOWER LOW WATER AT THE RAILROAD DOCK; 15 FEET IN THE 200 FOOT ENTRANCE CHANNEL TO THE BOAT BASIN AND AT THE CITY DOCK; 25 FEET IN THE BOAT MOORING AREA.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1977-----	89,449	6,866	1982-----		
1978-----	92,554	8,404	1983-----		
1979-----	59,754	3,918	1984-----		
1980-----	137,849	9,177	1985-----		
1981-----	113,602	9,365	1986-----		

## FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC	
		IMPORTS	COASTWISE		SHIPMENTS
			RECEIPTS	SHIPMENTS	
TOTAL-----	811,951	71,473	723,889	15,437	1,152
0611 FRESH FISH, EXCEPT SHELLFISH-----	22,656		22,703	153	
0912 SHELLFISH, EXCEPT PREPARED-----	1,790		1,790		
1121 COAL AND LIGNITE-----	690,880		690,880		
1451 CLAY-----	3,283	3,283			
2031 FISH AND SHELLFISH, PREPARED-----	3,040		3,040		
2411 LOGS-----	5,405		5,405		
2691 PULP AND PAPER PRODUCTS, NEC-----	7	7			
2819 BASIC CHEMICALS AND PROD, NEC-----	74	74			
2821 PLASTIC MATERIALS-----	17	17			
2831 DRUGS-----	134	134			
2841 SOAP-----	125	125			
2851 PAINTS-----	21	21			
2911 GASOLINE-----	56			56	
2914 DISTILLATE FUEL OIL-----	9,016			9,016	
3315 IRON, STEEL SHAPES, EXC SHEET-----	331	331			
3317 IRON AND STEEL PIPE AND TUBE-----	65,333	65,333			
3323 LEAD AND ZINC, UNWORKED-----	24	24			
3411 FABRICATED METAL PRODUCTS-----	1,550	1,550			
3511 MACHINERY, EXCEPT ELECTRICAL-----	1,011	558		610	643
3711 MOTOR VEHICLES, PARTS, EQUIP-----	775			310	465
4112 COMMODITIES, NEC-----	5,553	16	1	5,492	44
9999 DEPARTMENT OF DEFENSE AND SCI-----	70		70		

## Waterborne Commerce of the United States, 1986

ANCHORAGE, ALASKA

SECTION INCLUDED: KNIK ARM FROM THE MUNICIPAL TERMINAL ON THE NORTH TO AND INCLUDING TERMINAL FACILITIES ON SHIP CREEK. CONTROLLING DEPTHS: 35 FEET OFF THE FACE OF THE CITY DOCKS; THE APPROACH CHANNEL NORTH OF FIRE ISLAND, TO POINT HORONZOF, 26.5 FEET. PROJECT DEPTHS: 35 FEET. ALL DEPTHS REFER TO MLLW.

## COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	ADDITIONAL TRAFFIC		YEAR	TONS	PASSENGERS	ADDITIONAL TRAFFIC	
			GENERAL FERRY VEHICLES	PASSENGERS				GENERAL FERRY VEHICLES	PASSENGERS
1977-----	2,267,081	-----	-----	-----	1982-----	1,998,185	-----	-----	-----
1978-----	2,226,158	-----	-----	-----	1983-----	2,424,452	-----	-----	-----
1979-----	1,638,747	-----	-----	-----	1984-----	2,382,726	-----	-----	-----
1980-----	1,751,640	-----	-----	-----	1985-----	1,939,441	-----	-----	-----
1981-----	2,259,941	-----	-----	-----	1986-----	1,331,554	-----	-----	-----

## FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC			
		IMPORTS	EXPORTS	COASTWISE		INTERNAL	
				RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS
TOTAL-----	1,331,554	126,955	32,535	1,020,233	143,064	4,807	3,960
0105 RICE-----	23	-----	-----	23	-----	-----	-----
0112 FLAXSEED-----	51	-----	-----	51	-----	-----	-----
0131 FRESH FRUITS-----	3,392	-----	-----	3,392	-----	-----	-----
0132 BANANAS AND PLANTAINS-----	743	-----	-----	743	-----	-----	-----
0141 FRESH AND FROZEN VEGETABLES-----	3,377	-----	-----	3,377	-----	-----	-----
0161 ANIMALS AND PRODUCTS, NEC-----	560	-----	-----	560	17	-----	-----
0661 FOREST PRODUCTS, NEC-----	71	17	-----	54	-----	-----	-----
0911 FRESH FISH, EXCEPT SHELLFISH-----	29,332	-----	16,694	76	12,562	-----	-----
0912 SHELLFISH, EXCEPT PREPARED-----	4,510	-----	4,510	-----	-----	-----	-----
0931 MARINE SHELLS, UNMANUFACTURED-----	112	-----	-----	112	-----	-----	-----
1011 IRON ORE AND CONCENTRATES-----	476	476	-----	-----	-----	-----	-----
1121 COAL AND LIGNITE-----	10,710	-----	-----	10,707	3	-----	-----
1442 SAND, GRAVEL, CRUSHED ROCK-----	281	-----	-----	281	-----	-----	-----
1451 CLAY-----	108	-----	-----	108	-----	-----	-----
1491 SALT-----	279	214	-----	65	-----	-----	-----
1499 NONMETALLIC MINERALS, NEC-----	109	-----	-----	109	-----	-----	-----
2011 MEAT, FRESH, CHILLED, FROZEN-----	2,467	-----	-----	2,467	-----	-----	-----
2012 MEAT AND PRODUCTS, NEC-----	185	-----	-----	185	-----	-----	-----
2021 DAIRY PRODUCTS, NEC-----	8,006	-----	-----	8,006	-----	-----	-----
2031 FISH AND SHELLFISH, PREPARED-----	25,784	-----	829	64	24,891	-----	-----
2042 ANIMAL FEEDS-----	1,030	205	666	159	-----	-----	-----
2081 ALCOHOLIC BEVERAGES-----	1,445	2	-----	1,443	-----	-----	-----
2092 ANIMAL OILS AND FATS, NEC-----	56	-----	-----	56	-----	-----	-----
2094 GROCERIES-----	273,164	-----	-----	273,121	43	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	17,309	-----	-----	17,309	-----	-----	-----
2111 TOBACCO MANUFACTURES-----	234	-----	-----	234	-----	-----	-----
2211 BASIC TEXTILE PRODUCTS-----	21	8	13	13	-----	-----	-----
2413 FUEL WOOD, CHARCOAL, WASTES-----	47	-----	47	47	-----	-----	-----
2414 TIMBER, POSTS, POLES, PILING-----	54	-----	25	25	29	-----	-----
2421 LUMBER-----	26,016	2,931	-----	22,755	330	-----	-----
2431 VENEER, PLYWOOD, WORKED WOOD-----	490	-----	490	-----	-----	-----	-----
2691 WOOD MANUFACTURES, NEC-----	21,417	83	-----	21,005	329	-----	-----
2511 FURNITURE AND FIXTURES-----	18,781	5	-----	8,556	10,220	-----	-----
2621 STANDARD NEWSPRINT PAPER-----	1,591	1,279	312	312	-----	-----	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	13,150	17	13,137	235	235	-----	-----
2711 PRINTED MATTER-----	235	-----	27	27	-----	-----	-----
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	29	2	-----	-----	-----	-----	-----
2813 ALCOHOLS-----	1,370	-----	-----	-----	-----	-----	-----
2817 BENZENE AND TOLUENE-----	489	-----	489	-----	-----	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	7,726	26	7,698	-----	-----	-----	-----
2821 PLASTIC MATERIALS-----	58	4	54	54	-----	-----	-----
2861 SOAP-----	197	-----	197	-----	-----	-----	-----
2851 PAINTS-----	163	14	149	149	-----	-----	-----
2871 NITROGENOUS CHEM FERTILIZERS-----	15	-----	15	15	-----	-----	-----
2879 FERTILIZER AND MATERIALS, NEC-----	406	-----	466	466	-----	-----	-----
2891 MISCELLANEOUS CHEMICAL PROD-----	174	-----	148	148	26	26	-----
2911 GASOLINE-----	11,917	4,491	-----	6,040	247	1,139	-----
2912 JET FUEL-----	91,075	28,257	-----	50,140	10,421	2,257	-----
2914 DISTILLATE FUEL OIL-----	17,644	3,382	9,824	1,020	2,221	1,197	-----
2916 LUBRICATING OILS AND GREASES-----	6,949	-----	6,949	-----	-----	-----	-----
2917 NAPHTHA, PETROLEUM SOLVENTS-----	44	-----	45	45	1	1	-----
2918 ASPHALT, TAR, AND PITCHES-----	15	-----	15	15	-----	-----	-----
2921 LIQUEFIED GASES-----	33	-----	26	26	7	7	-----
2991 PETROLEUM AND COAL PROD, NEC-----	2,716	-----	2,664	2,664	52	52	-----
3011 RUBBER AND MISC PLASTIC PROD-----	4,112	10	762	762	3,340	3,340	-----
3111 LEATHER AND LEATHER PRODUCTS-----	95	31	64	64	-----	-----	-----
3211 GLASS AND GLASS PRODUCTS-----	390	324	66	66	-----	-----	-----
3241 BUILDING CEMENT-----	72,738	35,065	-----	33,713	-----	-----	3,960
3261 CUT STONE AND STONE PRODUCTS-----	662	-----	682	682	-----	-----	-----
3291 MISC NONMETALLIC MINERAL PROD-----	21,409	-----	21,095	314	314	314	-----
3314 IRON AND STEEL PRIMARY FORMS-----	116	-----	116	116	-----	-----	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	4,274	4,105	124	124	45	45	-----
3317 IRON AND STEEL PIPE AND TUBE-----	6,744	3,368	2,571	2,571	805	805	-----
3319 IRON AND STEEL PRODUCTS, NEC-----	117	-----	102	102	15	15	-----
3521 NONFERROUS METALS, NEC-----	20	-----	-----	-----	20	20	-----
3611 FABRICATED METAL PRODUCTS-----	96,193	38,806	54,047	54,047	2,540	2,540	-----
3611 MACHINERY, EXCEPT ELECTRICAL-----	7,376	797	4,121	4,121	2,456	2,456	-----
3611 ELECTRICAL MACH AND EQUIP-----	182	1	144	144	37	37	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	32,853	1,656	22,904	22,904	8,099	194	194
3731 SHIPS AND BOATS-----	148	-----	140	140	8	8	-----
3791 MISC TRANSPORTATION EQUIPMENT-----	52	-----	39	39	13	13	-----
3911 MISC MANUFACTURED PRODUCTS-----	16,634	3	135	135	16,496	16,496	-----
4011 IRON AND STEEL SCRAP-----	369	-----	369	369	369	369	-----

## ALASKA DISTRICT

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ANCHORAGE, ALASKA--CONTINUED  
 FREIGHT TRAFFIC, 1966--CONTINUED  
 (SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		INTERNAL	
		IMPORTS	EXPORTS	COASTWISE	SHIPMENTS	RECEIPTS	SHIPMENTS
				RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS
4012 NONFERROUS METAL SCRAP-----	68-----	-----	-----	68-----	-----	-----	-----
4024 PAPER WASTE AND SCRAP-----	20-----	-----	-----	20-----	-----	-----	-----
4112 COMMODITIES, NEC-----	444,919	4-----	12-----	413,387	31,496	20-----	-----
4113 LCL FREIGHT-----	2-----	-----	-----	-----	2-----	-----	-----
4119 EMPTY CONTAINERS-----	15,341	-----	-----	174	15,167	-----	-----

## Waterborne Commerce of the United States, 1986

## OTHER HARBORS AND WATERWAYS

HARBOR OR WATERWAY	PROJECT	COMMODITY	TONS	TOTAL TON-MILES	PASSENGERS
BETHEL HARBOR, ALASKA-----		0122 HAY AND FORAGE-----			
		1402 SAND, GRAVEL, CRUSHED ROCK-----	20,386	1	
		1491 SALT-----	95		
		2042 ANIMAL FEEDS-----	1		
		2081 ALCOHOLIC BEVERAGES-----	34		
		2094 GROCERIES-----	191		
		2099 MISCELLANEOUS FOOD PRODUCTS-----	852		
		2414 TIMBER, PIGTS, POLES, PILING-----	52		
		2421 LUMBER-----	3,952		
		2431 VENEER, PLYWOOD, WORKED WOOD-----	92		
		2491 MISC MANUFACTURES, NEC-----	832		
		2511 FURNITURE AND FIXTURES-----	21		
		2671 NITROGENOUS CHEM FERTILIZERS-----	39		
		2911 GASOLINE-----	5,547		
		2912 JET FUEL-----	8,711		
		2914 DISTILLATE FUEL OIL-----	4,761		
		2917 NAUTICAL, PETROLEUM SOLVENTS-----	1		
		2918 ASPHALT, TAR, AND PITCHES-----	236		
		2921 LIQUEFIED GASES-----	4		
		2951 ASPHALT BUILDING MATERIALS-----	7,211		
		2991 PETROLEUM AND COAL PROD, NEC-----	10		
		3011 RUBBER AND MISC PLASTIC PROD-----	1		
		3281 CUT STONE AND STONE PRODUCTS-----	1,645		
		3291 MISC NONMETALLIC MINERAL PROD-----	45		
		3315 IRON, STEEL SHAPES, EXC SHEET-----	15		
		3317 IRON AND STEEL PIPE AND TUBE-----	6		
		3319 IRON AND STEEL PRODUCTS, NEC-----	717		
		3411 FABRICATED METAL PRODUCTS-----	656		
		3511 MACHINERY, EXCEPT ELECTRICAL-----	15		
		3611 ELECTRICAL MACH AND EQUIP-----	336		
		3711 MOTOR VEHICLES, PARTS, EQUIP-----	115		
		3731 SHIPS AND BOATS-----	26		
		3791 MISC TRANSPORTATION EQUIPMENT-----	11,939		
		4112 COMMODITIES, NEC-----	121		
		TOTAL-----	68,756		
CORDOVA HARBOR, ALASKA-----		0911 FRESH FISH, EXCEPT SHELLFISH-----	297		
		0931 MARINE SHELLS, UNMANUFACTURED-----	15		
		2031 FISH AND SHELLFISH, PREPARED-----	225		
		2692 ANIMAL OILS AND FATS, NEC-----	50		
		2699 MISCELLANEOUS FOOD PRODUCTS-----	377		
		2421 LUMBER-----	566		
		2491 MISC MANUFACTURES, NEC-----	567		
		2911 GASOLINE-----	3,634		
		2912 JET FUEL-----	1,165		
		2914 DISTILLATE FUEL OIL-----	11,220		
		2991 PETROLEUM AND COAL PROD, VLC-----	88		
		3291 MISC NONMETALLIC MINERAL PROD-----	566		
		3411 FABRICATED METAL PRODUCTS-----	51		
		3511 MACHINERY, EXCEPT ELECTRICAL-----	28		
		3611 MISC MANUFACTURED PRODUCTS-----	103		
		4112 COMMODITIES, NEC-----	427		
		TOTAL-----	19,377		17,473
CRAIG HARBOR, ALASKA-----		4112 COMMODITIES, NEC-----	1,696		
DILLINGHAM HARBOR, ALASKA-----		1402 SAND, GRAVEL, CRUSHED ROCK-----	22		
		1491 SALT-----	155		
		2081 ALCOHOLIC BEVERAGES-----	518		
		2094 GROCERIES-----	136		
		2099 MISCELLANEOUS FOOD PRODUCTS-----	193		
		2421 LUMBER-----	1,182		
		2491 MISC MANUFACTURES, NEC-----	759		
		2511 FURNITURE AND FIXTURES-----	64		
		2691 PULP AND PAPER PRODUCTS, NEC-----	165		
		2821 PLASTIC MATERIALS-----	5		
		2871 NITROGENOUS CHEM FERTILIZERS-----	20		
		2991 MISCELLANEOUS CHEMICAL PROD-----	5		
		2911 GASOLINE-----	3,297		
		2912 JET FUEL-----	3,298		
		2914 DISTILLATE FUEL OIL-----	7,524		
		2916 LUBRICATING OILS AND GREASES-----	43		
		2921 LIQUEFIED GASES-----	105		
		2951 ASPHALT BUILDING MATERIALS-----	13		
		2991 PETROLEUM AND COAL PROD, NEC-----	6		
		3241 BUILDING CEMENT-----	291		
		3291 MISC NONMETALLIC MINERAL PROD-----	1,557		
		3315 IRON, STEEL SHAPES, EXC SHEET-----	16		
		3319 IRON AND STEEL PRODUCTS, NEC-----	14		
		3411 FABRICATED METAL PRODUCTS-----	606		
		3511 MACHINERY, EXCEPT ELECTRICAL-----	181		
		3611 ELECTRICAL MACH AND EQUIP-----	16		
		3711 MOTOR VEHICLES, PARTS, EQUIP-----	319		
		3721 AIRCRAFT AND PARTS-----	2		
		3731 SHIPS AND BOATS-----	191		
		3911 MISC MANUFACTURED PRODUCTS-----	16		
		4112 COMMODITIES, NEC-----	3,212		
		4119 EMPTY CONTAINERS-----	95		
		TOTAL-----	24,050		
DOUGLAS HARBOR, ALASKA-----		2421 LUMBER-----	67		
		2491 MISC MANUFACTURES, NEC-----	67		
		3291 MISC NONMETALLIC MINERAL PROD-----	66		
		3411 FABRICATED METAL PRODUCTS-----	150		

## ALASKA DISTRICT

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## OTHER HARBORS AND WATERWAYS--CONTINUED

HARBOR OR WATERWAY	COMMODITY	TDS	TOTAL TON-MILES	PASSENGERS
PROJECT--CONTINUED				
DOUGLAS HARBOR, ALASKA (CONTINUED)-----	3791 MISC TRANSPORTATION EQUIPMENT-----	30	-----	-----
	TOTAL-----	386	-----	-----
DRY PASS, ALASKA-----	NO COMMERCE REPORTED			
EGEGLIK RIVER, ALASKA-----	2081 ALCOMOLIC BEVERAGES----- 2094 GROCERIES----- 2099 MISCELLANEOUS FOOD PRODUCTS----- 2421 LUMBER----- 2431 VENEER, PLYWOOD, WORKED WOOD----- 2491 WOOD MANUFACTURES, NEC----- 2921 LIQUEFIED GASES----- 3011 RUBBER AND MISC PLASTIC PROD----- 3291 MISC NONMETALLIC MINERAL PROD----- 3411 FABRICATED METAL PRODUCTS----- 3511 MACHINERY, EXCEPT ELECTRICAL----- 3611 ELECTRICAL MACH AND EQUIP----- 3711 MOTOR VEHICLES, PARTS, EQUIP----- 3731 SHIPS AND BOATS----- 3791 MISC TRANSPORTATION EQUIPMENT----- 4112 COMMODITIES, NEC----- 4113 LCL FREIGHT-----	43 71 10 56 26 35 15 2 35 13 42 6 16 29 4 231 6	-----	-----
	TOTAL-----	630	-----	-----
ELFIN COVE HARBOR, ALASKA-----	NO COMMERCE REPORTED			
GASTINEAU CHANNEL, ALASKA-----	0122 HAY AND FORAGE----- 0129 FIELD CROPS, NEC----- 0131 FRESH FRUIT----- 0141 FRESH AND FROZEN VEGETABLES----- 0191 MISCELLANEOUS FARM PRODUCTS----- 0861 FOREST PRODUCTS, NEC----- 0911 FRESH FISH, EXCEPT SHELLFISH----- 0912 SHELLFISH, EXCEPT PREPARED----- 1442 SAND, GRAVEL, CRUSHED ROCK----- 1451 CLAY----- 1491 SALT----- 2011 MEAT, FRESH, CHILLED, FROZEN----- 2031 FISH AND SHELLFISH, PREPARED----- 2034 VEGETABLES AND PREP, NEC----- 2039 PREP FRUIT AND VEG JUICE, NEC----- 2042 ANIMAL FEEDS----- 2049 GRAIN MILL PRODUCTS, NEC----- 2081 ALCOMOLIC BEVERAGES----- 2094 GROCERIES----- 2099 MISCELLANEOUS FOOD PRODUCTS----- 2211 BASIC TEXTILE PRODUCTS----- 2411 LOGS----- 2414 TIMBER, POSTS, POLES, PILING----- 2421 LUMBER----- 2431 VENEER, PLYWOOD, WORKED WOOD----- 2491 WOOD MANUFACTURES, NEC----- 2511 FURNITURE AND FIXTURES----- 2621 STANDARD NEWSPRINT PAPER----- 2631 PAPER AND PAPERBOARD----- 2691 PULP AND PAPER PRODUCTS, NEC----- 2711 PRINTED MATTER----- 2819 BASIC CHEMICALS AND PROD, NEC----- 2821 PLASTIC MATERIALS----- 2841 SOAP----- 2851 PAINTS----- 2879 FERTILIZER AND MATERIALS, NEC----- 2891 MISCELLANEOUS CHEMICAL PROD----- 2911 GASOLINE----- 2912 JET FUEL----- 2914 DISTILLATE FUEL OIL----- 2915 RESIDUAL FUEL OIL----- 2916 LUBRICATING OILS AND GREASES----- 2921 LIQUEFIED GASES----- 2951 ASPHALT BUILDING MATERIALS----- 2991 PETROLEUM AND COAL PROD, NEC----- 3011 RUBBER AND MISC PLASTIC PROD----- 3211 GLASS AND GLASS PRODUCTS----- 3241 BUILDING CEMENT----- 3251 STRUCTURAL CLAY PRODUCTS----- 3271 LIME----- 3291 MISC NONMETALLIC MINERAL PROD----- 3315 IRON, STEEL SHAPES, EXC SHEET----- 3317 IRON AND STEEL PIPE AND TUBE----- 3319 IRON AND STEEL PRODUCTS, NEC----- 3322 COPPER ALLOYS, UNMARKED----- 3411 FABRICATED METAL PRODUCTS----- 3511 MACHINERY, EXCEPT ELECTRICAL----- 3611 ELECTRICAL MACH AND EQUIP----- 3711 MOTOR VEHICLES, PARTS, EQUIP----- 3731 SHIPS AND BOATS----- 3791 MISC TRANSPORTATION EQUIPMENT----- 3911 MISC MANUFACTURED PRODUCTS----- 4011 IRON AND STEEL SCRAP----- 4112 COMMODITIES, NEC----- 4113 LCL FREIGHT----- 4119 EMPTY CONTAINERS-----	272 140 65 1,362 72 170 296 57 251 25 436 1 781 19 2 1,095 147 3,369 17,197 1,550 21 92,919 6 4,146 1,020 2,804 911 116 196 493 32 46 17 15 232 222 51 10,120 61 16,604 1,107 224 81 68 237 1 24 6,485 74 41 4,172 143 125 40 14 2,335 2,824 104 2,106 142 302 17 205 15,520 6 583 194,386 1,555,104 198,817	-----	
HOMER, ALASKA-----	0911 FRESH FISH, EXCEPT SHELLFISH-----	16,930	-----	-----

## Waterborne Commerce of the United States, 1986

## OTHER HARBORS AND WATERWAYS--CONTINUED

HARBOR OR WATERWAY	COMMODITY	TONS	TOTAL TON-MILES	PASSENGERS
PROJECT--CONTINUED				
HOMER, ALASKA (CONTINUED)	0912 SHELLFISH, EXCEPT PREPARED-----	325	-----	-----
	2031 FISH AND SHELLFISH, PREPARED-----	808	-----	-----
	2042 ANIMAL FEEDS-----	555	-----	-----
	2061 ALCOHOLIC BEVERAGES-----	21	-----	-----
	2421 LUMBER-----	49	-----	-----
	2491 WOOD MANUFACTURES, NEC-----	4	-----	-----
	2511 FURNITURE AND FIXTURES-----	16	-----	-----
	2914 DISTILLATE FUEL OIL-----	10,086	-----	-----
	2915 RESIDUAL FUEL OIL-----	6,064	-----	-----
	3291 MISC NONMETALLIC MINERAL PROD-----	104	-----	-----
	3317 IRON AND STEEL PIPE AND TUBE-----	5	-----	-----
	3411 FABRICATED METAL PRODUCTS-----	37,479	-----	-----
	3511 MACHINERY, EXCEPT ELECTRICAL-----	697	-----	-----
	3711 MOTOR VEHICLES, PARTS, EQUIP-----	33	-----	-----
	3731 SHIPS AND BOATS-----	11	-----	-----
	4112 COMMODITIES, NEC-----	24	-----	-----
	TOTAL-----	73,707	-----	21,991
HOONAH HARBOR, ALASKA-----	0911 FRESH FISH, EXCEPT SHELLFISH-----	43	-----	-----
	1491 SALT-----	4	-----	-----
	2011 MEAT, FRESH, CHILLED, FROZEN-----	4	-----	-----
	2031 FISH AND SHELLFISH, PREPARED-----	606	-----	-----
	2039 PREP FRUIT AND VEG JUICE, NEC-----	4	-----	-----
	2094 GROCERIES-----	653	-----	-----
	2411 LOGS-----	150,874	-----	-----
	2412 RAFTED LOGS-----	1,313	-----	-----
	2691 PULP AND PAPER PRODUCTS, NEC-----	6	-----	-----
	2891 MISCELLANEOUS CHEMICAL PROD-----	152	-----	-----
	2911 GASOLINE-----	264	-----	-----
	2914 DISTILLATE FUEL OIL-----	1,419	-----	-----
	2915 RESIDUAL FUEL OIL-----	404	-----	-----
	3411 FABRICATED METAL PRODUCTS-----	24	-----	-----
	3511 MACHINERY, EXCEPT ELECTRICAL-----	386	-----	-----
	4112 COMMODITIES, NEC-----	2,445	-----	-----
	TOTAL-----	166,561	-----	18,901
HUMBOLDT HARBOR, ALASKA-----	0911 FRESH FISH, EXCEPT SHELLFISH-----	85	-----	-----
	1491 SALT-----	189	-----	-----
	2011 MEAT, FRESH, CHILLED, FROZEN-----	78	-----	-----
	2031 FISH AND SHELLFISH, PREPARED-----	601	-----	-----
	2039 PREP FRUIT AND VEG JUICE, NEC-----	119	-----	-----
	2491 WOOD MANUFACTURES, NEC-----	716	-----	-----
	2691 PULP AND PAPER PRODUCTS, NEC-----	151	-----	-----
	2911 GASOLINE-----	1,313	-----	-----
	2912 JET FUEL-----	63	-----	-----
	2914 DISTILLATE FUEL OIL-----	4,778	-----	-----
	2915 RESIDUAL FUEL OIL-----	1,197	-----	-----
	3411 FABRICATED METAL PRODUCTS-----	605	-----	-----
	3511 MACHINERY, EXCEPT ELECTRICAL-----	465	-----	-----
	4112 COMMODITIES, NEC-----	1,196	-----	-----
	TOTAL-----	11,792	-----	749
JUNEAU HARBOR, ALASKA-----	0122 HAY AND FORAGE-----	272	-----	-----
	0129 FIELD CROPS, NEC-----	140	-----	-----
	0131 FRESH FRUITS-----	85	-----	-----
	0141 FRESH AND FROZEN VEGETABLES-----	1,382	-----	-----
	0191 MISCELLANEOUS FARM PRODUCTS-----	72	-----	-----
	0661 FOREST PRODUCTS, NEC-----	170	-----	-----
	0911 FRESH FISH, EXCEPT SHELLFISH-----	296	-----	-----
	0912 SHELLFISH, EXCEPT PREPARED-----	57	-----	-----
	1442 SAND, GRAVEL, CRUSHED ROCK-----	81	-----	-----
	1451 CLAY-----	25	-----	-----
	1491 SALT-----	636	-----	-----
	2011 MEAT, FRESH, CHILLED, FROZEN-----	1	-----	-----
	2031 FISH AND SHELLFISH, PREPARED-----	781	-----	-----
	2034 VEGETABLES AND PREP, NEC-----	19	-----	-----
	2039 PREP FRUIT AND VEG JUICE, NEC-----	2	-----	-----
	2042 ANIMAL FEEDS-----	1,095	-----	-----
	2049 GRAIN MILL PRODUCTS, NEC-----	147	-----	-----
	2081 ALCOHOLIC BEVERAGES-----	3,369	-----	-----
	2094 GROCERIES-----	17,197	-----	-----
	2099 MISCELLANEOUS FOOD PRODUCTS-----	1,550	-----	-----
	2211 BASIC TEXTILE PRODUCTS-----	21	-----	-----
	2411 LOGS-----	92,919	-----	-----
	2414 TIMBER, POSTS, POLES, PILING-----	6	-----	-----
	2421 LUMBER-----	3,984	-----	-----
	2431 VENEER, PLYWOOD, WORKED WOOD-----	1,006	-----	-----
	2491 WOOD MANUFACTURES, NEC-----	2,802	-----	-----
	2511 FURNITURE AND FIXTURES-----	899	-----	-----
	2621 STANDARD NEWSPRINT PAPER-----	118	-----	-----
	2631 PAPER AND PAPERBOARD-----	196	-----	-----
	2691 PULP AND PAPER PRODUCTS, NEC-----	493	-----	-----
	2819 BASIC CHEMICALS AND PROD, NEC-----	46	-----	-----
	2821 PLASTIC MATERIALS-----	17	-----	-----
	2841 SOAP-----	15	-----	-----
	2851 PAINTS-----	232	-----	-----
	2879 FERTILIZER AND MATERIALS, NEC-----	222	-----	-----
	2891 MISCELLANEOUS CHEMICAL PROD-----	51	-----	-----
	2911 GASOLINE-----	10,120	-----	-----
	2912 JET FUEL-----	81	-----	-----
	2914 DISTILLATE FUEL OIL-----	16,604	-----	-----
	2915 RESIDUAL FUEL OIL-----	1,107	-----	-----
	2916 LUBRICATING OILS AND GREASES-----	220	-----	-----
	2921 LIQUEFIED GASES-----	63	-----	-----
	2951 ASPHALT BUILDING MATERIALS-----	68	-----	-----

## ALASKA DISTRICT

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## OTHER HARBORS AND WATERWAYS--CONTINUED

HARBOR OR WATERWAY	COMMODITY	TONS	TOTAL TON-MILES	PASSENGERS
PROJECT--CONTINUED				
JUNEAU HARBOR, ALASKA (CONTINUED)-----	2991 PETROLEUM AND COAL PROD, NEC----- 3011 RUBBER AND MISC PLASTIC PROD----- 3211 GLASS AND GLASS PRODUCTS----- 3241 BUILDING CEMENT----- 3251 STRUCTURAL CLAY PRODUCTS----- 3271 LIME----- 3291 MISC NONMETALLIC MINERAL PROD----- 3315 IRON, STEEL SHAPES, EXC SHEET----- 3317 IRON, AND STEEL PIPE AND TUBE----- 3322 COPPER ALLOYS, UNWORKED----- 3411 FABRICATED METAL PRODUCTS----- 3511 MACHINERY, EXCEPT ELECTRICAL----- 3611 ELECTRICAL MACH AND EQUIP----- 3711 MOTOR VEHICLES, PARTS, EQUIP----- 3731 SHIPS AND BOATS----- 3791 MISC TRANSPORTATION EQUIPMENT----- 3911 MISC MANUFACTURED PRODUCTS----- 4011 IRON AND STEEL SCRAP----- 4112 COMMODITIES, NEC----- 4113 LCL FREIGHT----- 4119 EMPTY CONTAINERS-----	159 1 28 6,414 16 41 4,161 143 125 14 1,969 2,826 96 2,102 142 302 17 205 15,504 8 543	193,285	198,817
KING COVE LAGOON, ALASKA-----	0411 FRESH FISH, EXCEPT SHELLFISH----- 1491 SALT----- 2011 MEAT, FRESH, CHILLED, FROZEN----- 2031 FISH AND SHELLFISH, PREPARED----- 2039 PREP FRUIT AND VEG JUICE, NEC----- 2491 WOOD MANUFACTURES, NEC----- 2511 FURNITURE AND FIXTURES----- 2691 PULP AND PAPER PRODUCTS, NEC----- 2911 GASOLINE----- 2915 DISTILLATE FUEL OIL----- 2915 RESIDUAL FUEL OIL----- 3291 MISC NONMETALLIC MINERAL PROD----- 3411 FABRICATED METAL PRODUCTS----- 3511 MACHINERY, EXCEPT ELECTRICAL----- 3711 MOTOR VEHICLES, PARTS, EQUIP----- 4112 COMMODITIES, NEC-----	88 961 151 4,620 233 74 15 298 206 2,989 30 10 713 8 16 2,597	12,309	427
KODIAK HARBOR, ALASKA-----	0112 FLAXSEED----- 0129 FIELD CROPS, NEC----- 0141 FRESH AND FROZEN VEGETABLES----- 0161 ANIMALS AND PRODUCTS, NEC----- 0911 FRESH FISH, EXCEPT SHELLFISH----- 0912 SHELLFISH, EXCEPT PREPARED----- 0931 MARINE SHELLS, UNMANUFACTURED----- 1121 COAL AND LIGNITE----- 1412 BUILDING STONE, UNWORKED----- 1491 SALT----- 2011 MEAT, FRESH, CHILLED, FROZEN----- 2031 FISH AND SHELLFISH, PREPARED----- 2039 PREP FRUIT AND VEG JUICE, NEC----- 2042 ANIMAL FEEDS----- 2061 ALCOHOLIC BEVERAGES----- 2092 ANIMAL OILS AND FATS, NEC----- 2099 MISCELLANEOUS FOOD PRODUCTS----- 2311 APFAMEL----- 2421 LIQUER----- 2491 WOOD MANUFACTURES, NEC----- 2511 FURNITURE AND FIXTURES----- 2631 PAPER AND PAPERBOARD----- 2691 PULP AND PAPER PRODUCTS, NEC----- 2711 PRINTED MATTER----- 2812 DYES, PIGMENT, TANNING MATS----- 2817 XENZENE AND TOLUENE----- 2819 BASIC CHEMICALS AND PROD, NEC----- 2821 PLASTIC MATERIALS----- 2822 SYNTHETIC RUBBER----- 2823 SYNTHETIC (VANADE) FIBERS----- 2841 SOAP----- 2879 FERTILIZER AND MATERIALS, NEC----- 2891 MISCELLANEOUS CHEMICAL PROD----- 2911 GASOLINE----- 2912 JET FUEL----- 2914 DISTILLATE FUEL OIL----- 2915 RESIDUAL FUEL OIL----- 2921 LIQUEFIED GASES----- 2991 PETROLEUM AND COAL PROD, NEC----- 3011 RUBBER AND MISC PLASTIC PROD----- 3291 MISC NONMETALLIC MINERAL PROD----- 3317 IRON AND STEEL PIPE AND TUBE----- 3319 IRON AND STEEL PRODUCTS, NEC----- 3411 FABRICATED METAL PRODUCTS----- 3511 MACHINERY, EXCEPT ELECTRICAL----- 3611 ELECTRICAL MACH AND EQUIP----- 3711 MOTOR VEHICLES, PARTS, EQUIP----- 3811 INSTN, TIME, PHOTO, OPT GOODS----- 3911 MISC MANUFACTURED PRODUCTS----- 4011 IRON AND STEEL SCRAP----- 4112 COMMODITIES, NEC----- 4119 EMPTY CONTAINERS-----	64 6 101 2,662 34,452 3,979 371 3,949 16 1,110 3 22,271 1 26 128 91 143 864 283 4,499 4,218 31 729 920 1 3 680 56 195 7 12 8 221 13 9,453 17,118 46,018 138 157 310 152 4,228 1 2 512 1,198 27 617 33 3,501 98 33,143 30	199,609	21,163

## Waterborne Commerce of the United States, 1986

## OTHER HARBOURS AND WATERWAYS--CONTINUED

HARBOR OR WATERWAY	COMMODITY	TONS	TOTAL TON- MILES	PASSENGERS
PROJECT--CONTINUED				
NETLAKATLA HARBOR, ALASKA-----	0191 MISCELLANEOUS FARM PRODUCTS----- 0911 FRESH FISH, EXCEPT SHELLFISH----- 1402 SAND, GRAVEL, CRUSHED ROCK----- 2031 FISH AND SHELLFISH, PREPARED----- 2099 MISCELLANEOUS FOOD PRODUCTS----- 2411 LOGS----- 2412 RAFTED LOGS----- 2416 WOOD CHIPS, STAVES, MOLDINGS----- 2421 LUMBER----- 2491 WOOD MANUFACTURES, NEC----- 2511 FURNITURE AND FIXTURES----- 2691 PULP AND PAPER PRODUCTS, NEC----- 2819 BASIC CHEMICALS AND PROD, NEC----- 2891 MISCELLANEOUS CHEMICAL PROD----- 2911 GASOLINE----- 2914 DISTILLATE FUEL OIL----- 2915 RESIDUAL FUEL OIL----- 2991 PETROLEUM AND COAL PROD, NEC----- 3011 RUBBER AND MISC PLASTIC PROD----- 3241 BUILDING CEMENT----- 3411 FABRICATED METAL PRODUCTS----- 3511 MACHINERY, EXCEPT ELECTRICAL----- 3611 ELECTRICAL MACH AND EQUIP----- 3711 MOTOR VEHICLES, PARTS, EQUIP----- 3911 MISC MANUFACTURED PRODUCTS----- 4112 COMMODITIES, NEC----- 4119 EMPTY CONTAINERS-----	59 1,157 3,400 120 1,176 16,548 80,625 69,454 43,085 452 22 2 93 10 757 1,268 38 179 16 271 1,090 219 16 127 36 124 50	220,372	16,063
VAKNEK RIVER, ALASKA-----	TOTAL-----  1402 SAND, GRAVEL, CRUSHED ROCK----- 1491 SALT----- 2011 MEAT, FRESH, CHILLED, FROZEN----- 2031 FISH AND SHELLFISH, PREPARED----- 2039 PREP FRUIT AND VEG JUICE, NEC----- 2081 ALCOHOLIC BEVERAGES----- 2094 GROCERIES----- 2099 MISCELLANEOUS FOOD PRODUCTS----- 2414 TIMBER, POSTS, POLES, PILING----- 2421 LUMBER----- 2431 VENEER, PLYWOOD, WORKED WOOD----- 2491 WOOD MANUFACTURES, NEC----- 2511 FURNITURE AND FIXTURES----- 2691 PULP AND PAPER PRODUCTS, NEC----- 2613 ALCOHOLS----- 2821 PLASTIC MATERIALS----- 2851 PAINTS----- 2911 GASOLINE----- 2912 JET FUEL----- 2914 DISTILLATE FUEL OIL----- 2915 RESIDUAL FUEL OIL----- 2916 LUBRICATING OILS AND GREASES----- 2918 ASPHALT, TAR, AND PITCHES----- 2921 LIQUEFIED GASES----- 2991 PETROLEUM AND COAL PROD, NEC----- 3241 BUILDING CEMENT----- 3291 MISC NONMETALLIC MINERAL PROD----- 3317 IRON AND STEEL PIPE AND TUBE----- 3319 IRON AND STEEL PRODUCTS, NEC----- 3411 FABRICATED METAL PRODUCTS----- 3511 MACHINERY, EXCEPT ELECTRICAL----- 3611 ELECTRICAL MACH AND EQUIP----- 3731 SHIPS AND BOATS----- 3791 MISC TRANSPORTATION EQUIPMENT----- 3911 MISC MANUFACTURED PRODUCTS----- 4112 COMMODITIES, NEC----- 4119 EMPTY CONTAINERS-----	8 165 4 4,313 6 331 296 68 47 622 102 649 12 14 337 4 19 4,910 4,989 13,939 1,571 93 74 90 1,498 436 349 62 7 531 1,022 2 497 297 49 5 6,149 96	43,063	63,184
VINILCHIK HARBOR, ALASKA-----	TOTAL-----  NO COMMERCE REPORTED			
YOME, ALASKA-----	0911 FRESH FISH, EXCEPT SHELLFISH----- 0912 SHELLFISH, EXCEPT PREPARED----- 1491 SALT----- 2031 FISH AND SHELLFISH, PREPARED----- 2081 ALCOHOLIC BEVERAGES----- 2094 GROCERIES----- 2099 MISCELLANEOUS FOOD PRODUCTS----- 2414 TIMBER, POSTS, POLES, PILING----- 2421 LUMBER----- 2491 WOOD MANUFACTURES, NEC----- 2511 FURNITURE AND FIXTURES----- 2819 BASIC CHEMICALS AND PROD, NEC----- 2861 GUM AND WOOD CHEMICALS----- 2891 MISCELLANEOUS CHEMICAL PROD----- 2911 GASOLINE----- 2912 JET FUEL----- 2914 DISTILLATE FUEL OIL----- 2921 LIQUEFIED GASES----- 2951 ASPHALT BUILDING MATERIALS----- 2991 PETROLEUM AND COAL PROD, NEC----- 3011 RUBBER AND MISC PLASTIC PROD----- 3241 BUILDING CEMENT----- 3291 MISC NONMETALLIC MINERAL PROD----- 3317 IRON AND STEEL PIPE AND TUBE----- 3319 IRON AND STEEL PRODUCTS, NEC-----	3,320 296 119 142 370 15 571 20 667 325 16 69 17 21 5,303 381 21,710 16 3 17 52 3 581 101 39		

## ALASKA DISTRICT

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## OTHER HARBORS AND WATERWAYS--CONTINUED

HARBOR OR WATERWAY	COMMODITY	TONS	TOTAL TON-MILES	PASSENGERS
PROJECT--CONTINUED				
VOME, ALASKA (CONTINUED)	3411 FABRICATED METAL PRODUCTS----- 3511 MACHINERY, EXCEPT ELECTRICAL----- 3611 ELECTRICAL MACH. AND EQUIP----- 3711 MOTOR VEHICLES, PARTS, EQUIP----- 3731 SHIPS AND BOATS----- 3791 MISC TRANSPORTATION EQUIPMENT----- 3911 MISC MANUFACTURED PRODUCTS----- 4111 WATER----- 4112 COMMODITIES, NEC----- 4119 EMPTY CONTAINERS-----	549 384 8 553 113 17 6 908 10,555 66		
	TOTAL-----	47,141		
OLD HARBOR, ALASKA-----	1491 SALT----- 2011 MEAT, FRESH, CHILLED, FROZEN----- 2031 FISH AND SHELLFISH, PREPARED----- 2039 PREP FRUIT AND VEG JUICE, NEC----- 2691 PULP AND PAPER PRODUCTS, NEC----- 2911 GASOLINE----- 2914 DISTILLATE FUEL OIL----- 3411 FABRICATED METAL PRODUCTS----- 4112 COMMODITIES, NEC-----	24 16 2,062 26 33 54 521 60 553		
	TOTAL-----	3,149		
PELICAN HARBOR, ALASKA-----	0911 FRESH FISH, EXCEPT SHELLFISH----- 2031 FISH AND SHELLFISH, PREPARED----- 4112 COMMODITIES, NEC-----	40 3,261 1,309		
	TOTAL-----	4,611		2,510
PETERSBURG HARBOR, ALASKA-----	0191 MISCELLANEOUS FARM PRODUCTS----- 0911 FRESH FISH, EXCEPT SHELLFISH----- 1442 SAND, GRAVEL, CRUSHED ROCK----- 1491 SALT----- 2011 MEAT, FRESH, CHILLED, FROZEN----- 2031 FISH AND SHELLFISH, PREPARED----- 2081 ALCOHOLIC BEVERAGES----- 2091 GROCERIES----- 2099 MISCELLANEOUS FOOD PRODUCTS----- 2211 BASIC TEXTILE PRODUCTS----- 2416 WOOD CHIPS, STAVES, HOLDINGS----- 2421 LUMBER----- 2431 VENEER, PLYWOOD, WARKEK WOOD----- 2491 WOOD MANUFACTURES, NEC----- 2511 FURNITURE AND FIXTURES----- 2691 PULP AND PAPER PRODUCTS, NEC----- 2811 BASIC CHEMICALS AND PROD, NEC----- 2851 PAINTS----- 2871 FERTILIZER AND MATERIALS, NEC----- 2911 GASOLINE----- 2912 JET FUEL----- 2914 DISTILLATE FUEL OIL----- 2915 RESIDUAL FUEL OIL----- 2916 LUBRICATING OILS AND GREASES----- 2991 PETROLEUM AND COAL PROD, NEC----- 3013 RUBBER AND MISC PLASTIC PROD----- 3241 BUILDING CEMENT----- 3291 MISC NONMETALLIC MINERAL PROD----- 3311 IRON AND STEEL PRIMARY FORMS----- 3317 IRON AND STEEL PIPE AND TUBE----- 3319 IRON AND STEEL PRODUCTS, NEC----- 3322 COPPER ALLOYS, UNWORKED----- 3411 FABRICATED METAL PRODUCTS----- 3511 MACHINERY, EXCEPT ELECTRICAL----- 3611 ELECTRICAL MACH. AND EQUIP----- 3711 MOTOR VEHICLES, PARTS, EQUIP----- 3731 SHIPS AND BOATS----- 3791 MISC TRANSPORTATION EQUIPMENT----- 3911 MISC MANUFACTURED PRODUCTS----- 4112 COMMODITIES, NEC----- 4119 EMPTY CONTAINERS-----	44 286 21 264 1 7,710 24 1,242 859 9 10,345 10,772 26 87 136 68 286 1 12 970 226 5,920 157 68 52 28 1,960 172 3 1 2 1 2,907 1,219 108 437 4 2 254 846 10 50,542		
	TOTAL-----	52,422		
PORT ALEXANDER, ALASKA-----	NO COMMERCE REPORTED			
SELDOMIA HARBOR, ALASKA-----	2911 GASOLINE----- 2914 DISTILLATE FUEL OIL----- 3511 MACHINERY, EXCEPT ELECTRICAL----- 4112 COMMODITIES, NEC-----	495 1,907 30 11		
	TOTAL-----	2,443		9,180
STIKINE RIVER, ALASKA-----	1442 SAND, GRAVEL, CRUSHED ROCK----- 3511 MACHINERY, EXCEPT ELECTRICAL-----	12,715 20		
	TOTAL-----	12,735		
JUNALASKA BAY AND ISLAND, ALASKA-----	0129 FIELD CROPS, NEC----- 0131 FRESH FRUITS----- 0141 FRESH AND FROZEN VEGETABLES----- 0161 ANIMALS AND PRODUCTS, NEC----- 0861 FOREST PRODUCTS, NEC----- 0911 FRESH FISH, EXCEPT SHELLFISH----- 0912 SHELLFISH, EXCEPT PREPARED----- 1491 SALT----- 2011 MEAT, FRESH, CHILLED, FROZEN-----	18 37 278 39 1 2,162 3,165 1,138 427		

## Waterborne Commerce of the United States, 1986

## OTHER HARBORS AND WATERWAYS--CONTINUED

HARBOR OR WATERWAY	COMMODITY	TONS	TOTAL TON-MILES	PASSENGERS
PROJECT--CONTINUED				
JUNALASKA BAY AND ISLAND, ALASKA (CONTINUED)				
	2012 MEAT AND PRODUCTS, NEC-----	3		
	2031 FISH AND SHELLFISH, PREPARED-----	12,059		
	2034 VEGETABLES AND PREP, NEC-----	19		
	2039 PREP FRUIT AND VEG JUICE, NEC-----	675		
	2042 ANIMAL FEEDS-----	282		
	2092 ANIMAL OILS AND FATS, NEC-----	20		
	2099 MISCELLANEOUS FOOD PRODUCTS-----	54		
	2211 BASIC TEXTILE PRODUCTS-----	31		
	2311 APPAREL-----	45		
	2421 LUMBER-----	26		
	2491 WOOD MANUFACTURES, NEC-----	159		
	2631 PAPER AND PAPERBOARD-----	686		
	2691 PULP AND PAPER PRODUCTS, NEC-----	989		
	2819 BASIC CHEMICALS AND PROD, NEC-----	276		
	2821 PLASTIC MATERIALS-----	465		
	2822 SYNTHETIC RUBBER-----	45		
	2823 SYNTHETIC (MAN-MADE) FIBERS-----	23		
	2831 DRUGS-----	5		
	2841 SOAP-----	32		
	2851 PAINTS-----	5		
	2871 NITROGENOUS CHEM FERTILIZERS-----	39		
	2891 MISCELLANEOUS CHEMICAL PROD-----	34		
	2911 GASOLINE-----	14,427		
	2912 JET FUEL-----	13,204		
	2914 DISTILLATE FUEL OIL-----	171,844		
	2915 RESIDUAL FUEL OIL-----	1,921		
	2916 LUBRICATING OILS AND GREASES-----	58		
	2991 PETROLEUM AND COAL PROD, NEC-----	3		
	3011 WOOD AND MISC PLASTIC PROD-----	23		
	3291 MISC NONMETALLIC MINERAL PROD-----	27		
	3316 IRON AND STEEL PLATES, SHEETS-----	4		
	3317 IRON AND STEEL PIPE AND TUBE-----	3,985		
	3324 ALUMINUM AND ALLOYS, UNWORKED-----	1		
	3411 FABRICATED METAL PRODUCTS-----	3,628		
	3511 MACHINERY, EXCEPT ELECTRICAL-----	2,627		
	3611 ELECTRICAL MACH AND EQUIP-----	191		
	3711 MOTOR VEHICLES, PARTS, EQUIP-----	270		
	3751 SHIPS AND BOATS-----	100		
	3811 IVYTH, TIME, PHOTO, OPT GOODS-----	7		
	3911 MISC MANUFACTURED PRODUCTS-----	56		
	4112 COMMODITIES, NEC-----	9,589		
	TOTAL-----	245,190		499
NONPROJECT				
CHATHAM STRAIT, ALASKA-----				
	0131 FRESH FRUITS-----	24		
	0141 FRESH AND FROZEN VEGETABLES-----	21		
	0911 FRESH FISH, EXCEPT SHELLFISH-----	3,640		
	1442 SAND, GRAVEL, CRUSHED ROCK-----	204		
	1491 SALT-----	611		
	1492 SULPHUR, DRY-----	8,690		
	1499 NONMETALLIC MINERALS, NEC-----	1		
	2011 MEAT, FRESH, CHILLED, FROZEN-----	21		
	2031 FISH AND SHELLFISH, PREPARED-----	18,107		
	2039 PREP FRUIT AND VEG JUICE, NEC-----	24		
	2042 ANIMAL FEEDS-----	16		
	2061 ALCOHOLIC BEVERAGES-----	2,563		
	2094 GROCERIES-----	6,049		
	2099 MISCELLANEOUS FOOD PRODUCTS-----	570		
	2411 LOGS-----	131,947		
	2412 RAFTED LOGS-----	194,274		
	2413 TIMBER, POSTS, POLES, PILING-----	32		
	2415 PULPWOOD, LOG-----	16,680		
	2416 WOOD CHIPS, STAVES, HOLDINGS-----	180,800		
	2421 LUMBER-----	2,100		
	2431 VENEER, PLYWOOD, WORKED WOOD-----	327		
	2491 WOOD MANUFACTURES, NEC-----	1,642		
	2511 FURNITURE AND FIXTURES-----	627		
	2611 PULP-----	30,294		
	2691 PULP AND PAPER PRODUCTS, NEC-----	690		
	2711 PRINTED MATTER-----	52		
	2810 SODIUM HYDROXIDE-----	22,711		
	2819 BASIC CHEMICALS AND PROD, NEC-----	1,045		
	2841 SOAP-----	130		
	2851 PAINTS-----	97		
	2871 NITROGENOUS CHEM FERTILIZERS-----	121		
	2879 FERTILIZER AND MATERIALS, NEC-----	169		
	2891 MISCELLANEOUS CHEMICAL PROD-----	9,619		
	2911 GASOLINE-----	7,610		
	2912 JET FUEL-----	1,355		
	2914 DISTILLATE FUEL OIL-----	28,660		
	2915 RESIDUAL FUEL OIL-----	15,138		
	2916 LUBRICATING OILS AND GREASES-----	49,283		
	2923 LIQUEFIED GASES-----	43		
	2951 ASPHALT BUILDING MATERIALS-----	36		
	2991 PETROLEUM AND CCL PROD, NEC-----	219		
	3011 RUBBER AND MISC PLASTIC PROD-----	69		
	3241 BUILDING CEMENT-----	2,847		
	3251 STRUCTURAL CLAY PRODUCTS-----	64		
	3291 MISC NONMETALLIC MINERAL PROD-----	977		
	3315 IRON, STEEL SHAPES, EXC SHEET-----	24		
	3317 IRON AND STEEL PIPE AND TUBE-----	42		
	3319 IRON AND STEEL PRODUCTS, NEC-----	63		
	3411 FABRICATED METAL PRODUCTS-----	3,184		
	3511 MACHINERY, EXCEPT ELECTRICAL-----	5,340		
	3611 ELECTRICAL MACH AND EQUIP-----	121		

## ALASKA DISTRICT

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## OTHER HARBORS AND WATERWAYS--CONTINUED

HARBOR OR WATERWAY	COMMODITY	TONS	TON-MILES	PASSENGERS
NONPROJECT--CONTINUED				
CHATHAM STRAIT, ALASKA (CONTINUED)	3711 MOTOR VEHICLES, PARTS, EQUIP-----	1,557	-----	-----
	3731 SHIPS AND BOATS-----	220	-----	-----
	3791 MISC TRANSPORTATION EQUIPMENT-----	232	-----	-----
	3911 MISC MANUFACTURED PRODUCTS-----	7	-----	-----
	4011 IRON AND STEEL SCRAP-----	631	-----	-----
	4112 COMMODITIES, NEC-----	15,283	-----	-----
	4119 EMPTY CONTAINERS-----	514	-----	-----
	TOTAL-----	788,895	29,023,517	145,027
CLARENCE STRAIT, ALASKA-----	0151 FRESH FRUITS-----	5	-----	-----
	0141 FRESH AND FROZEN VEGETABLES-----	5	-----	-----
	0191 MISCCELLANEOUS FARM PRODUCTS-----	59	-----	-----
	0861 FOREST PRODUCTS, NEC-----	14	-----	-----
	0911 FRESH FISH, EXCEPT SHELLFISH-----	9,985	-----	-----
	1402 SAND, GRAVEL, CRUSHED ROCK-----	1,103	-----	-----
	1491 SALT-----	270	-----	-----
	1492 SULPHUR, DRY-----	197	-----	-----
	2031 FISH AND SHELLFISH, PREPARED-----	1,465	-----	-----
	2042 ANIMAL FEEDS-----	62	-----	-----
	2061 ALCOHOLIC BEVERAGES-----	1,723	-----	-----
	2094 GROCERIES-----	9,944	-----	-----
	2099 MISCCELLANEOUS FOOD PRODUCTS-----	2,119	-----	-----
	2411 LOGS-----	16,546	-----	-----
	2412 RAFTED LOGS-----	99,563	-----	-----
	2416 WOOD CHIPS, STAVES, HOLDINGS-----	16,028	-----	-----
	2421 LUMBER-----	44,002	-----	-----
	2431 VENEER, PLYWOOD, WORKED WOOD-----	669	-----	-----
	2491 WOOD MANUFACTURES, NEC-----	735	-----	-----
	2511 FURNITURE AND FIXTURES-----	432	-----	-----
	2691 PULP AND PAPER PRODUCTS, NEC-----	270	-----	-----
	2711 PRINTED MATTER-----	16	-----	-----
	2819 BASIC CHEMICALS AND PROD, NEC-----	229	-----	-----
	2851 PAINTS-----	19	-----	-----
	2879 FERTILIZERS AND MATERIALS, NEC-----	97	-----	-----
	2891 MISCCELLANEOUS CHEMICAL PROD-----	2,076	-----	-----
	2911 GASOLINE-----	14,039	-----	-----
	2914 DISTILLATE FUEL OIL-----	43,627	-----	-----
	2915 RESIDUAL FUEL OIL-----	728	-----	-----
	2916 LUBRICATING OILS AND GREASES-----	208	-----	-----
	2921 LIQUEFIED GASES-----	59	-----	-----
	2951 ASPHALT BUILDING MATERIALS-----	15	-----	-----
	2991 PETROLEUM AND COAL PROD, NEC-----	346	-----	-----
	3011 RUBBER AND MISC PLASTIC PROD-----	27	-----	-----
	3241 BUILDING CEMENT-----	560	-----	-----
	3251 STRUCTURAL CLAY PRODUCTS-----	33	-----	-----
	3291 MISC NONMETALLIC MINERAL PROD-----	755	-----	-----
	3317 IRON AND STEEL PIPE AND TUBE-----	25	-----	-----
	3319 IRON AND STEEL PRODUCTS, NEC-----	13	-----	-----
	3411 FABRICATED METAL PRODUCTS-----	2,540	-----	-----
	3511 MACHINERY, EXCEPT ELECTRICAL-----	14,660	-----	-----
	3611 ELECTRICAL MACH AND EQUIP-----	53	-----	-----
	3711 MOTOR VEHICLES, PARTS, EQUIP-----	1,061	-----	-----
	3731 SHIPS AND BOATS-----	41	-----	-----
	3791 MISC TRANSPORTATION EQUIPMENT-----	203	-----	-----
	3911 MISC MANUFACTURED PRODUCTS-----	46	-----	-----
	4011 IRON AND STEEL SCRAP-----	3	-----	-----
	4112 COMMODITIES, NEC-----	10,499	-----	-----
	4119 EMPTY CONTAINERS-----	536	-----	-----
	TOTAL-----	298,816	12,523,180	69,758
FREDERICK SOUND, ALASKA-----	0122 HAY AND FODDER-----	272	-----	-----
	0131 FRESH FRUITS-----	29	-----	-----
	0141 FRESH AND FROZEN VEGETABLES-----	26	-----	-----
	0191 MISCCELLANEOUS FARM PRODUCTS-----	72	-----	-----
	0861 FOREST PRODUCTS, NEC-----	170	-----	-----
	0911 FRESH FISH, EXCEPT SHELLFISH-----	3,204	-----	-----
	1402 SAND, GRAVEL, CRUSHED ROCK-----	221	-----	-----
	1451 CLAY-----	15	-----	-----
	1491 SALT-----	779	-----	-----
	1492 SULPHUR, DRY-----	8,690	-----	-----
	1499 NONMETALLIC MINERALS, NEC-----	1	-----	-----
	2011 MEAT, FRESH, CHILLED, FROZEN-----	22	-----	-----
	2031 FISH AND SHELLFISH, PREPARED-----	23,131	-----	-----
	2039 PREP FRUIT AND VEG JUICE, NEC-----	26	-----	-----
	2042 ANIMAL FEEDS-----	256	-----	-----
	2049 GRAIN MILL PRODUCTS, NEC-----	5	-----	-----
	2081 ALCOHOLIC BEVERAGES-----	5,911	-----	-----
	2094 GROCERIES-----	23,137	-----	-----
	2099 MISCCELLANEOUS FOOD PRODUCTS-----	2,094	-----	-----
	2211 BASIC TEXTILE PRODUCTS-----	20	-----	-----
	2411 LOGS-----	131,997	-----	-----
	2412 RAFTED LOGS-----	247,683	-----	-----
	2414 TIMBER, POSTS, POLES, PILING-----	35	-----	-----
	2415 PULPWOOD, LOG-----	16,680	-----	-----
	2416 WOOD CHIPS, STAVES, HOLDINGS-----	160,800	-----	-----
	2421 LUMBER-----	5,469	-----	-----
	2431 VENEER, PLYWOOD, WORKED WOOD-----	1,206	-----	-----
	2491 WOOD MANUFACTURES, NEC-----	4,229	-----	-----
	2511 FURNITURE AND FIXTURES-----	1,280	-----	-----
	2611 PULP-----	30,296	-----	-----
	2621 STANDARD NEWSPRINT PAPER-----	118	-----	-----
	2691 PULP AND PAPER PRODUCTS, NEC-----	1,174	-----	-----
	2711 PRINTED MATTER-----	32	-----	-----
	2810 SODIUM HYDROXIDE-----	22,711	-----	-----
	2819 BASIC CHEMICALS AND PROD, NEC-----	1,124	-----	-----
	2821 PLASTIC MATERIALS-----	17	-----	-----

## Waterborne Commerce of the United States, 1986

## OTHER HARBORS AND WATERWAYS--CONTINUED

HARBOR OR WATERWAY	COMMODITY	TONS	TOTAL TON-MILES	PASSENGERS
<b>NONPROJECT--CONTINUED</b>				
FREDERICK SOUND, ALASKA (CONTINUED)	2841 PAINTS-----	145	-----	-----
	2851 PAINTS-----	337	-----	-----
	2871 VITROGENOUS CHEM FERTILIZERS	121	-----	-----
	2879 FERTILIZER AND MATERIALS, NEC	477	-----	-----
	2891 MISCELLANEOUS CHEMICAL PROD	10,390	-----	-----
	2911 GASOLINE-----	15,355	-----	-----
	2912 JET FUEL-----	1,355	-----	-----
	2914 DISTILLATE FUEL OIL-----	41,040	-----	-----
	2915 RESIDUAL FUEL OIL-----	14,234	-----	-----
	2916 LUBRICATING OILS AND GREASES	49,503	-----	-----
	2921 LIQUEFIED GASES-----	135	-----	-----
	2951 ASPHALT BUILDING MATERIALS-----	104	-----	-----
	2991 PETROLEUM AND COAL PROD, NEC	385	-----	-----
	3011 MISC PLASTIC PROD-----	66	-----	-----
	3211 GLASS AND GLASS PRODUCTS-----	26	-----	-----
	3241 BUILDING CEMENT-----	2,217	-----	-----
	3251 STRUCTURAL CLAY PRODUCTS-----	100	-----	-----
	3271 LIME-----	41	-----	-----
	3291 CUT STONE AND STONE PRODUCTS	144	-----	-----
	3291 MISCELLANEOUS MINERAL PROD	5,076	-----	-----
	3315 IRON, STEEL SHAPES, EXC SHEET	151	-----	-----
	3317 IRON AND STEEL PIPE AND TUBE	141	-----	-----
	3319 IRON AND STEEL PRODUCTS, NEC	92	-----	-----
	3322 COPPER ALLOYS, JWOKED-----	14	-----	-----
	3411 FABRICATED METAL PRODUCTS-----	4,148	-----	-----
	3511 MACHINERY, EXCEPT ELECTRICAL	9,213	-----	-----
	3611 ELECTRICAL MACH AND EQUIP-----	184	-----	-----
	3711 MOTOR VEHICLES, PARTS, EQUIP	3,159	-----	-----
	3731 SHIPS AND BOATS-----	300	-----	-----
	3791 MISC TRANSPORTATION EQUIPMENT	523	-----	-----
	3911 MISC MANUFACTURED PRODUCTS-----	27	-----	-----
	4011 IRON AND STEEL SCRAP-----	657	-----	-----
	4112 COMMODITIES, NEC-----	32,443	-----	-----
	4113 LCL FREIGHT-----	8	-----	-----
	4119 EMPTY CONTAINERS-----	1,019	-----	-----
	<b>TOTAL-----</b>	<b>886,212</b>	<b>33,903,044</b>	<b>122,687</b>
ICY STRAIT, ALASKA-----	0129 FIELD CHURPS, NEC-----	140	-----	-----
	0131 FRESH FRUITS-----	71	-----	-----
	0141 FRESH AND FROZEN VEGETABLES-----	1,370	-----	-----
	0911 FRESH FISH, EXCEPT SHELLFISH	369	-----	-----
	0912 SHELLFISH, EXCEPT PREPARED-----	57	-----	-----
	1091 NONFERROUS ORES, CONCENT, NEC	399,881	-----	-----
	1442 SAND, GRAVEL, CRUSHED ROCK-----	51	-----	-----
	1451 CLAY-----	10	-----	-----
	1491 SALT-----	42	-----	-----
	2011 MEAT, FRESH, CHILLED, FROZEN	7	-----	-----
	2031 FISH AND SHELLFISH, PREPARED-----	5,449	-----	-----
	2034 VEGETABLES AND PMP, NEC-----	19	-----	-----
	2039 PREP FRUIT AND VEG JUICE, NEC-----	8	-----	-----
	2042 ANIMAL FEEDS-----	857	-----	-----
	2049 GRAIN MILL PRODUCTS, NEC-----	142	-----	-----
	2081 ALCOHOLIC BEVERAGES-----	49	-----	-----
	2094 GROCERIES-----	726	-----	-----
	2099 MISCELLANEOUS FOOD PRODUCTS-----	27	-----	-----
	2211 BASIC TEXTILE PRODUCTS-----	1	-----	-----
	2411 LOGS-----	251,643	-----	-----
	2412 RAFTED LUGS-----	76,292	-----	-----
	2410 TIMBER, PLS, POLES, PILING-----	3	-----	-----
	2421 LUMBER-----	584	-----	-----
	2431 VENEER, PLYWOOD, WORKED WOOD	102	-----	-----
	2491 WOOD MANUFACTURES, NEC-----	53	-----	-----
	2511 FURNITURE AND FIXTURES-----	6	-----	-----
	2631 PAPER AND PAPERBOARD-----	196	-----	-----
	2691 PULP AND PAPER PRODUCTS, NEC-----	7	-----	-----
	2819 BASIC CHEMICALS AND PROD, NEC-----	69	-----	-----
	2851 PAINTS-----	11	-----	-----
	2879 FERTILIZER AND MATERIALS, NEC-----	66	-----	-----
	2891 MISCELLANEOUS CHEMICAL PROD-----	249	-----	-----
	2911 GASOLINE-----	102,471	-----	-----
	2912 JET FUEL-----	8,963	-----	-----
	2914 DISTILLATE FUEL OIL-----	172,963	-----	-----
	2915 RESIDUAL FUEL OIL-----	415	-----	-----
	2991 PETROLEUM AND COAL PROD, NEC-----	1	-----	-----
	3241 BUILDING CEMENT-----	6,130	-----	-----
	3281 CUT STONE AND STONE PRODUCTS-----	144	-----	-----
	3291 MISCELLANEOUS MINERAL PROD-----	144	-----	-----
	3315 IRON, STEEL SHAPES, EXC SHEET	8	-----	-----
	3317 IRON AND STEEL PIPE AND TUBE	21	-----	-----
	3319 IRON AND STEEL PRODUCTS, NEC-----	11	-----	-----
	3411 FABRICATED METAL PRODUCTS-----	80	-----	-----
	3511 MACHINERY, EXCEPT ELECTRICAL	568	-----	-----
	3611 ELECTRICAL MACH AND EQUIP-----	26	-----	-----
	3711 MOTOR VEHICLES, PARTS, EQUIP-----	60	-----	-----
	3731 SHIPS AND BOATS-----	17	-----	-----
	3791 MISC TRANSPORTATION EQUIPMENT-----	5	-----	-----
	4112 COMMODITIES, NEC-----	8,196	-----	-----
	4119 EMPTY CONTAINERS-----	3	-----	-----
	<b>TOTAL-----</b>	<b>1,038,787</b>	<b>57,578,386</b>	<b>343,936</b>
LYNN CANAL, ALASKA-----	0129 FIELD CHURPS, NEC-----	140	-----	-----
	0131 FRESH FRUITS-----	71	-----	-----
	0141 FRESH AND FROZEN VEGETABLES-----	1,370	-----	-----
	0911 FRESH FISH, EXCEPT SHELLFISH	287	-----	-----
	0912 SHELLFISH, EXCEPT PREPARED-----	57	-----	-----
	1091 NONFERROUS ORES, CONCENT, NEC-----	399,881	-----	-----

## ALASKA DISTRICT

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## OTHER HARBOURS AND WATERWAYS--CONTINUED

HARBOR OR WATERWAY	COMMODITY	TONS	TOTAL TON-MILES	PASSENGERS
VONPROJECT--CONTINUED				
LYNN CANAL, ALASKA (CONTINUED)	1442 SAND, GRAVEL, CRUSHED ROCK----- 1451 CLAY----- 1491 SALT----- 2011 MEAT, FRESH, CHILLED, FROZEN----- 2031 FISH AND SHELLFISH, PREPARED----- 2034 VEGETABLES AND PREP, NEC----- 2039 PREP FRUIT AND VEG JUICE, NEC----- 2042 ANIMAL FEEDS----- 2049 GRAIN MILL PRODUCTS, NEC----- 2081 ALCOHOLIC BEVERAGES----- 2094 GROCERIES----- 2099 MISCELLANEOUS FOOD PRODUCTS----- 2211 BASIC TEXTILE PRODUCTS----- 2411 JUGS----- 2418 TIMBER, POSTS, POLES, PILING----- 2421 LUMBER----- 2431 VENEER, PLYWOOD, WORKED WOOD----- 2491 WOOD MANUFACTURES, NEC----- 2511 FURNITURE AND FIXTURES----- 2631 PAPER AND PAPERBOARD----- 2691 PULP AND PAPER PRODUCTS, NEC----- 2819 BASIC CHEMICALS AND PROD, NEC----- 2851 PAINTS----- 2879 FERTILIZERS AND MATERIALS, NEC----- 2891 MISCELLANEOUS CHEMICAL PROD----- 2911 GASOLINE----- 2912 JET FUEL----- 2914 DISTILLATE FUEL OIL----- 2915 RESIDUAL FUEL OIL----- 2916 LUBRICATING OILS AND GREASES----- 2951 ASPHALT BUILDING MATERIALS----- 2991 PETROLEUM AND COAL PROD, NEC----- 3011 RUBBER AND MISC PLASTIC PROD----- 3241 BUILDING CEMENT----- 3251 STRUCTURAL CLAY PRODUCTS----- 3261 CUT STONE AND STONE PRODUCTS----- 3291 MISC NONMETALLIC MINERAL PROD----- 3315 IRON, STEEL SHAPES, EXC SHEET----- 3317 IRON AND STEEL PIPE AND TUBE----- 3319 IRON AND STEEL PRODUCTS, NEC----- 3411 FABRICATED METAL PRODUCTS----- 3511 MACHINERY, EXCEPT ELECTRICAL----- 3611 ELECTRICAL MACH AND EQUIP----- 3711 MOTOR VEHICLES, PARTS, EQUIP----- 3731 SHIPS AND BOATS----- 3791 MISC TRANSPORTATION EQUIPMENT----- 4011 IRON AND STEEL SCRAP----- 4112 COMMODITIES, NEC----- 4119 EMPTY CONTAINERS-----	3,451 10 58 3 275 19 4 857 142 2,313 542 52 1 92,769 23 840 118 128 42 196 3 69 85 91 88 103,712 9,031 173,636 1,575 70 1 32 3 6,152 21 144 231 8 21 11 107 1,771 42 150 26 29 3 4,064 168	63,950,242	328,328
VIKISHKA, ALASKA	0911 FRESH FISH, EXCEPT SHELLFISH----- 1311 CRUDE PETROLEUM----- 1451 CLAY----- 2031 FISH AND SHELLFISH, PREPARED----- 2619 BASIC CHEMICALS AND PROD, NEC----- 2871 NITROGENOUS CHEM FERTILIZERS----- 2911 GASOLINE----- 2912 JET FUEL----- 2914 DISTILLATE FUEL OIL----- 2915 RESIDUAL FUEL OIL----- 2921 LIQUEFIED GASES----- 3241 BUILDING CEMENT----- 3511 MACHINERY, EXCEPT ELECTRICAL----- 4029 MASTE AND SCRAP, NEC----- 4111 WATER----- 4112 COMMODITIES, NEC-----	11,321 4,286,353 649 348 317,003 302,087 57,664 69,651 321,104 1,601,110 1,080,758 5,329 5,503 236 57,100 14,331		
PERIL STRAIT, ALASKA	0131 FRESH FRUITS----- 0141 FRESH AND FROZEN VEGETABLES----- 0911 FRESH FISH, EXCEPT SHELLFISH----- 1442 SAND, GRAVEL, CRUSHED ROCK----- 1491 SALT----- 1492 SULPHUR, DRY----- 1499 NONMETALLIC MINERALS, NEC----- 2011 MEAT, FRESH, CHILLED, FROZEN----- 2031 FISH AND SHELLFISH, PREPARED----- 2039 PREP FRUIT AND VEG JUICE, NEC----- 2042 ANIMAL FEEDS----- 2081 ALCOHOLIC BEVERAGES----- 2094 GROCERIES----- 2099 MISCELLANEOUS FOOD PRODUCTS----- 2012 RAFTED LOGS----- 2414 TIMBER, POSTS, POLES, PILING----- 2415 PULPWOOD, LOG----- 2416 WOOD CHIPS, STAVES, HOLDINGS----- 2421 LUMBER----- 2431 VENEER, PLYWOOD, WORKED WOOD----- 2491 WOOD MANUFACTURES, NEC----- 2511 FURNITURE AND FIXTURES----- 2611 PULP----- 2691 PULP AND PAPER PRODUCTS, NEC----- 2711 PRINTED MATTER----- 2810 SODIUM HYDROXIDE----- 2819 BASIC CHEMICALS AND PROD, NEC-----	18 14 93 262 607 8,690 1 14 12,933 24 16 160,800 1,786 314 1,480 615 30,294 684 32 22,711 1,045		

## Waterborne Commerce of the United States, 1986

## OTHER HARBORS AND WATERWAYS--CONTINUED

HARBOR OR WATERWAY	COMMODITY	TONS	TOTAL TON-MILES	PASSENGERS
NONPROJECT--CONTINUED				
PERIL STRAIT, ALASKA (CONTINUED)	2841 SOAP-----	130		
	2851 PAINTS-----	25		
	2679 FERTILIZER AND MATERIALS, NEC-----	104		
	2891 MISCELLANEOUS CHEMICAL PROD-----	8,905		
	2911 GASOLINE-----	4,965		
	2912 JET FUEL-----	1,287		
	2914 DISTILLATE FUEL OIL-----	21,934		
	2915 RESIDUAL FUEL OIL-----	11,504		
	2916 LUBRICATING OILS AND GREASES-----	49,160		
	2921 LIQUEFIED GASES-----	28		
	2951 ASPHALT BUILDING MATERIALS-----	35		
	2991 PETROLEUM AND COAL PROD, NEC-----	120		
	3011 RUBBER AND MISC PLASTIC PROD-----	66		
	3241 BUILDING CEMENT-----	2,706		
	3251 STRUCTURAL CLAY PRODUCTS-----	63		
	3291 MISC NONMETALLIC MINERAL PROD-----	865		
	3315 IRON, STEEL SHAPES, EXC SHEET-----	24		
	3317 IRON AND STEEL PIPE AND TUBE-----	34		
	3319 IRON AND STEEL PRODUCTS, NEC-----	33		
	3411 FABRICATED METAL PRODUCTS-----	2,952		
	3511 MACHINERY, EXCEPT ELECTRICAL-----	1,676		
	3611 ELECTRICAL MACH AND EQUIP-----	108		
	3721 MOTOR VEHICLES, PARTS, EQUIP-----	1,304		
	3731 SHIPS AND BOATS-----	199		
	3791 MISC TRANSPORTATION EQUIPMENT-----	195		
	3911 MISC MANUFACTURED PRODUCTS-----	51		
	4011 IRON AND STEEL SCRAP-----	631		
	4112 COMMODITIES, NEC-----	7,673		
	4119 EMPTY CONTAINERS-----	347		
	TOTAL-----	520,242	22,192,940	4,546
PRINCE WALES IS. WEST SIDE, ALASKA	2412 RAFTED LUGS-----	435,000		
	2415 PULPWOOD, LOG-----	5,370		
	2416 WOOD CHIPS, STAVES, HOLDINGS-----	300		
	2879 FERTILIZER AND MATERIALS, NEC-----	10		
	2891 MISCELLANEOUS CHEMICAL PROD-----	334		
	2911 GASOLINE-----	225		
	2914 DISTILLATE FUEL OIL-----	1,695		
	3411 FABRICATED METAL PRODUCTS-----	3		
	3511 MACHINERY, EXCEPT ELECTRICAL-----	1,600		
	3721 MOTOR VEHICLES, PARTS, EQUIP-----	50		
	4112 COMMODITIES, NEC-----	370		
	TOTAL-----	442,957		
REVILLAGIGADO CHANNEL, ALASKA	0191 MISCELLANEOUS FARM PRODUCTS-----	952		
	0911 FRESH FISH, EXCEPT SHELLFISH-----	13,386		
	1442 SAND, GRAVEL, CRUSHED ROCK-----	1,000		
	1491 SALT-----	659		
	1492 SULPHUR, DRY-----	8,445		
	2031 FISH AND SHELLFISH, PREPARED-----	5,383		
	2049 GRAIN MILL PRODUCTS, NEC-----	23		
	2081 ALCOHOLIC BEVERAGES-----	65		
	2094 GROCERIES-----	2,848		
	2099 MISCELLANEOUS FOOD PRODUCTS-----	16,815		
	2211 BASIC TEXTILE PRODUCTS-----	148		
	2411 LOGS-----	667,229		
	2412 RAFTED LUGS-----	503,813		
	2421 LUMBER-----	84,178		
	2431 VENEER, PLYWOOD, WORKED WOOD-----	23		
	2491 WOOD MANUFACTURES, NEC-----	7,141		
	2511 FURNITURE AND FIXTURES-----	951		
	2611 PULP-----	153,920		
	2691 PULP AND PAPER PRODUCTS, NEC-----	5,015		
	2810 SODIUM HYDROXIDE-----	29,601		
	2819 BASIC CHEMICALS AND PROD, NEC-----	1,810		
	2821 PLASTIC MATERIALS-----	16		
	2831 DRUGS-----	19		
	2841 SOAP-----	90		
	2879 FERTILIZER AND MATERIALS, NEC-----	194		
	2891 MISCELLANEOUS CHEMICAL PROD-----	11,624		
	2911 GASOLINE-----	27,172		
	2912 JET FUEL-----	9,294		
	2914 DISTILLATE FUEL OIL-----	74,784		
	2915 RESIDUAL FUEL OIL-----	13,414		
	2916 LUBRICATING OILS AND GREASES-----	26,398		
	2921 LIQUEFIED GASES-----	829		
	2951 ASPHALT BUILDING MATERIALS-----	34		
	2991 PETROLEUM AND COAL PROD, NEC-----	1,441		
	3011 RUBBER AND MISC PLASTIC PROD-----	473		
	3241 BUILDING CEMENT-----	3,702		
	3291 MISC NONMETALLIC MINERAL PROD-----	916		
	3315 IRON, STEEL SHAPES, EXC SHEET-----	350		
	3317 IRON AND STEEL PIPE AND TUBE-----	203		
	3411 FABRICATED METAL PRODUCTS-----	11,630		
	3511 MACHINERY, EXCEPT ELECTRICAL-----	7,563		
	3611 ELECTRICAL MACH AND EQUIP-----	546		
	3721 MOTOR VEHICLES, PARTS, EQUIP-----	2,374		
	3731 SHIPS AND BOATS-----	36		
	3791 MISC TRANSPORTATION EQUIPMENT-----	37		
	3911 MISC MANUFACTURED PRODUCTS-----	40		
	4011 IRON AND STEEL SCRAP-----	1,716		
	4112 COMMODITIES, NEC-----	1,121		
	4119 EMPTY CONTAINERS-----	5,433		
	TOTAL-----	1,903,202	73,676,361	161,498

## ALASKA DISTRICT

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## OTHER HARBORS AND WATERWAYS--CONTINUED

HARBOR OR WATERWAY	COMMODITY	TONS	TOTAL TON-MILES	PASSENGERS
<b>NONPROJECT--CONTINUED</b>				
STEPHENS PASSAGE, ALASKA-----	0122 HAY AND FODDER-----	272	-----	-----
	0129 FIELD CROPS, NEC-----	180	-----	-----
	0131 FRESH FRUITS-----	85	-----	-----
	0141 FRESH AND FROZEN VEGETABLES-----	1,382	-----	-----
	0191 MISCELLANEOUS FARM PRODUCTS-----	72	-----	-----
	0861 FOREST PRODUCTS, NEC-----	170	-----	-----
	0911 FRESH FISH, EXCEPT SHELLFISH-----	296	-----	-----
	0912 SHELLFISH, EXCEPT PREPARED-----	57	-----	-----
	1442 SAND, GRAVEL, CRUSHED ROCK-----	251	-----	-----
	1451 CLAY-----	25	-----	-----
	1491 SALT-----	480	-----	-----
	2011 MEAT, FRESH, CHILLED, FROZEN-----	3	-----	-----
	2031 FISH AND SHELLFISH, PREPARED-----	781	-----	-----
	2034 VEGETABLES AND PREP, NEC-----	19	-----	-----
	2039 PREP FRUIT AND VEG JUICE, NEC-----	4	-----	-----
	2042 ANIMAL FEEDS-----	1,095	-----	-----
	2049 GRAIN MILL PRODUCTS, NEC-----	147	-----	-----
	2061 ALCOMOLIC BEVERAGES-----	3,590	-----	-----
	2094 GROCERIES-----	17,230	-----	-----
	2099 MISCELLANEOUS FOOD PRODUCTS-----	1,554	-----	-----
	2211 BASIC TEXTILE PRODUCTS-----	21	-----	-----
	2411 LOGS-----	179,368	-----	-----
	2412 RAFTED LOGS-----	18,302	-----	-----
	2414 TIMBER, POSTS, POLES, PILING-----	9	-----	-----
	2421 LUMBER-----	4,438	-----	-----
	2431 VENEER, PLYWOOD, WORKED WOOD-----	1,020	-----	-----
	2491 WOOD MANUFACTURES, NEC-----	3,010	-----	-----
	2511 FURNITURE AND FIXTURES-----	915	-----	-----
	2621 STANDARD NEWSPRINT PAPER-----	118	-----	-----
	2631 PAPER AND PAPERBOARD-----	196	-----	-----
	2691 PULP AND PAPER PRODUCTS, NEC-----	496	-----	-----
	2711 PRINTED MATTER-----	32	-----	-----
	2819 BASIC CHEMICALS AND PROD, NEC-----	96	-----	-----
	2821 PLASTIC MATERIALS-----	17	-----	-----
	2841 SOAP-----	15	-----	-----
	2851 PAINTS-----	243	-----	-----
	2879 FERTILIZER AND MATERIALS, NEC-----	315	-----	-----
	2891 MISCELLANEOUS CHEMICAL PROD-----	755	-----	-----
	2911 GASOLINE-----	10,260	-----	-----
	2912 JEI FUEL-----	81	-----	-----
	2914 DISTILLATE FUEL OIL-----	18,269	-----	-----
	2915 RESIDUAL FUEL OIL-----	1,107	-----	-----
	2916 LUBRICATING OILS AND GREASES-----	220	-----	-----
	2921 LIQUEFIED GASES-----	92	-----	-----
	2951 ASPHALT BUILDING MATERIALS-----	68	-----	-----
	2991 PETROLEUM AND COAL PROD, NEC-----	244	-----	-----
	3011 RUBBER AND MISC PLASTIC PROD-----	1	-----	-----
	3211 GLASS AND GLASS PRODUCTS-----	28	-----	-----
	3241 BUILDING CEMENT-----	6,623	-----	-----
	3251 STRUCTURAL CLAY PRODUCTS-----	74	-----	-----
	3271 LIME-----	41	-----	-----
	3281 CJT STONE AND STONE PRODUCTS-----	180	-----	-----
	3291 MISC NONMETALLIC MINERAL PROD-----	4,478	-----	-----
	3315 IRON, STEEL SHAPES, EXC SHEET-----	183	-----	-----
	3317 IRON AND STEEL PIPE AND TUBE-----	134	-----	-----
	3319 IRON AND STEEL PRODUCTS, NEC-----	56	-----	-----
	3322 COPPER ALLOYS, UNWORKED-----	14	-----	-----
	3411 FABRICATED METAL PRODUCTS-----	2,348	-----	-----
	3511 MACHINERY, EXCEPT ELECTRICAL-----	4,267	-----	-----
	3611 ELECTRICAL MACH. AND EQUIP-----	124	-----	-----
	3711 MOTOR VEHICLES, PARTS, EQUIP-----	2,127	-----	-----
	3731 SHIPS AND BOATS-----	157	-----	-----
	3791 MISC TRANSPORTATION EQUIPMENT-----	402	-----	-----
	3911 MISC MANUFACTURED PRODUCTS-----	22	-----	-----
	4011 IRON AND STEEL SCRAP-----	205	-----	-----
	4112 COMMODITIES, NEC-----	16,249	-----	-----
	4113 LCL FREIGHT-----	8	-----	-----
	4119 EMPTY CONTAINERS-----	547	-----	-----
	<b>TOTAL-----</b>	<b>305,310</b>	<b>15,936,146</b>	<b>198,817</b>
SUNIVER STRAIT, ALASKA-----	0122 HAY AND FODDER-----	272	-----	-----
	0131 FRESH FRUITS-----	20	-----	-----
	0141 FRESH AND FROZEN VEGETABLES-----	19	-----	-----
	0191 MISCELLANEOUS FARM PRODUCTS-----	198	-----	-----
	0861 FOREST PRODUCTS, NEC-----	170	-----	-----
	0911 FRESH FISH, EXCEPT SHELLFISH-----	3,000	-----	-----
	1442 SAND, GRAVEL, CRUSHED ROCK-----	12,871	-----	-----
	1451 CLAY-----	15	-----	-----
	1491 SALT-----	602	-----	-----
	1492 SULPHUR, DRY-----	6,690	-----	-----
	1499 NONMETALLIC MINERALS, NEC-----	1	-----	-----
	2011 MEAT, FRESH, CHILLED, FROZEN-----	21	-----	-----
	2031 FISH AND SHELLFISH, PREPARED-----	16,503	-----	-----
	2034 PREP FRUIT AND VEG JUICE, NEC-----	26	-----	-----
	2042 ANIMAL FEEDS-----	254	-----	-----
	2049 GRAIN MILL PRODUCTS, NEC-----	5	-----	-----
	2081 ALCOMOLIC BEVERAGES-----	5,921	-----	-----
	2094 GROCERIES-----	26,606	-----	-----
	2099 MISCELLANEOUS FOOD PRODUCTS-----	6,440	-----	-----
	2211 BASIC TEXTILE PRODUCTS-----	35	-----	-----
	2411 LOGS-----	42,803	-----	-----
	2412 RAFTED LOGS-----	6,095	-----	-----
	2414 TIMBER, POSTS, POLES, PILING-----	42	-----	-----
	2415 PULPWOOD, LOG-----	22,329	-----	-----
	2416 WOOD CHIPS, STAVES, HOLDINGS-----	176,828	-----	-----
	2421 LUMBER-----	130,686	-----	-----
	2431 VENEER, PLYWOOD, WORKED WOOD-----	1,175	-----	-----

## Waterborne Commerce of the United States, 1986

## OTHER HARBORS AND WATERWAYS--CONTINUED

HARBOR OR WATERWAY	COMMODITY	TONS	TOTAL TON-MILES	PASSENGERS
NONPROJECT--CONTINUED				
SUMNER STRAIT ALASKA (CONTINUED)-----	2491 WOOD MANUFACTURES, NEC-----	4,565	-----	
	2511 FURNITURE AND FIXTURES-----	1,512	-----	
	2611 PULP-----	3,294	-----	
	2621 STANDARD NEWSPRINT PAPER-----	118	-----	
	2631 PAPER AND PAPERBOARD-----	5	-----	
	2691 PULP AND PAPER PRODUCTS, NEC-----	1,256	-----	
	2711 PRIVILEGED MATTER-----	16	-----	
	2810 SODIUM HYDROXIDE-----	22,711	-----	
	2819 BASIC CHEMICALS AND PROD, NEC-----	1,642	-----	
	2821 PLASTIC MATERIALS-----	81	-----	
	2841 SOAP-----	145	-----	
	2851 PAINTS-----	342	-----	
	2871 NITRUGENOUS CHEM FERTILIZERS-----	121	-----	
	2879 FERTILIZERS AND MATERIALS, NEC-----	477	-----	
	2891 MISCELLANEOUS CHEMICAL PROD-----	10,645	-----	
	2911 GASOLINE-----	18,242	-----	
	2912 JET FUEL-----	1,501	-----	
	2914 DISTILLATE FUEL OIL-----	56,795	-----	
	2915 RESIDUAL FUEL OIL-----	14,273	-----	
	2916 LUBRICATING OILS AND GREASES-----	49,621	-----	
	2918 ASPHALT, TAR, AND PITCHES-----	2,000	-----	
	2921 LIQUEFIED GASES-----	135	-----	
	2951 ASPHALT BUILDING MATERIALS-----	104	-----	
	2991 PETROLEUM AND COAL PROD, NEC-----	985	-----	
	3011 RUBBER AND MISC PLASTIC PROD-----	128	-----	
	3211 GLASS AND GLASS PRODUCTS-----	26	-----	
	3241 BUILDING CEMENT-----	3,201	-----	
	3251 STRUCTURAL CLAY PRODUCTS-----	92	-----	
	3271 LIME-----	41	-----	
	3281 CUT STONE AND STONE PRODUCTS-----	144	-----	
	3291 MISC NONMETALLIC MINERAL PROD-----	5,336	-----	
	3311 IRON AND STEEL PRIMARY FORMS-----	3	-----	
	3315 IRON, STEEL SHAPES, EXC SHEET-----	183	-----	
	3317 IRON AND STEEL PIPE AND TUBE-----	132	-----	
	3319 IRON AND STEEL PRODUCTS, NEC-----	79	-----	
	3322 COPPER ALLOYS, UNMARKED-----	15	-----	
	3411 FABRICATED METAL PRODUCTS-----	7,493	-----	
	3511 MACHINERY, EXCEPT ELECTRICAL-----	15,451	-----	
	3611 ELECTRICAL MACH AND EQUIP-----	320	-----	
	3731 MOTOR VEHICLES, PARTS, EQUIP-----	3,653	-----	
	3731 SHIPS AND BOATS-----	224	-----	
	3791 MISC TRANSPORTATION EQUIPMENT-----	537	-----	
	3911 MISC MANUFACTURED PRODUCTS-----	484	-----	
	4011 IRON AND STEEL SCRAP-----	481	-----	
	4112 COMMODITIES, NEC-----	33,323	-----	
	4115 LCL FREIGHT-----	8	-----	
	4119 EMPTY CONTAINERS-----	1,048	-----	
	TOTAL-----	755,911	38,779,180	79,774
TONGASS NATIONAL FOREST-----	0191 MISCELLANEOUS FARM PRODUCTS-----	952	-----	
	0911 FRESH FISH, EXCEPT SHELLFISH-----	7,536	-----	
	1442 SAND, GRAVEL, CRUSHED ROCK-----	3,800	-----	
	1491 SALT-----	659	-----	
	1492 SULPHUR, DRY-----	8,642	-----	
	2031 FISH AND SHELLFISH, PREPARED-----	4,110	-----	
	2049 GRAIN MILL PRODUCTS, NEC-----	23	-----	
	2081 ALCOHOLIC BEVERAGES-----	65	-----	
	2090 GROCERIES-----	2,848	-----	
	2099 MISCELLANEOUS FOOD PRODUCTS-----	16,845	-----	
	2211 BASIC TEXTILE PRODUCTS-----	184	-----	
	2411 LOGS-----	867,229	-----	
	2412 RAFTED LUGS-----	527,436	-----	
	2416 WOOD CHIPS, STAVES, HOLDINGS-----	85,782	-----	
	2421 LUMBER-----	84,176	-----	
	2431 VENEER, PLYWOOD, WORKED WOOD-----	23	-----	
	2491 WOOD MANUFACTURES, NEC-----	7,603	-----	
	2511 FURNITURE AND FIXTURES-----	958	-----	
	2611 PULP-----	153,920	-----	
	2691 PULP AND PAPER PRODUCTS, NEC-----	3,013	-----	
	2810 SODIUM HYDROXIDE-----	29,606	-----	
	2819 BASIC CHEMICALS AND PROD, NEC-----	1,938	-----	
	2821 PLASTIC MATERIALS-----	16	-----	
	2831 DRUGS-----	19	-----	
	2841 SOAP-----	90	-----	
	2879 FERTILIZER AND MATERIALS, NEC-----	62	-----	
	2891 MISCELLANEOUS CHEMICAL PROD-----	10,001	-----	
	2911 GASOLINE-----	81,364	-----	
	2912 JET FUEL-----	9,294	-----	
	2914 DISTILLATE FUEL OIL-----	119,551	-----	
	2915 RESIDUAL FUEL OIL-----	14,180	-----	
	2916 LUBRICATING OILS AND GREASES-----	28,398	-----	
	2921 LIQUEFIED GASES-----	829	-----	
	2951 ASPHALT BUILDING MATERIALS-----	34	-----	
	2991 PETROLEUM AND COAL PROD, NEC-----	1,482	-----	
	3011 RUBBER AND MISC PLASTIC PROD-----	473	-----	
	3241 BUILDING CEMENT-----	3,703	-----	
	3311 MISC NONMETALLIC MINERAL PROD-----	916	-----	
	3315 IRON, STEEL SHAPES, EXC SHEET-----	350	-----	
	3317 IRON AND STEEL PIPE AND TUBE-----	203	-----	
	3411 FABRICATED METAL PRODUCTS-----	11,836	-----	
	3511 MACHINERY, EXCEPT ELECTRICAL-----	18,376	-----	
	3611 ELECTRICAL MACH AND EQUIP-----	546	-----	
	3731 MOTOR VEHICLES, PARTS, EQUIP-----	2,941	-----	
	3731 SHIPS AND BOATS-----	46	-----	
	3791 MISC TRANSPORTATION EQUIPMENT-----	112	-----	
	3811 INSTR, TIME, PHOTO, OPT GOOOS-----	40	-----	
	3911 MISC MANUFACTURED PRODUCTS-----	1,716	-----	

## ALASKA DISTRICT

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## OTHER HARBOURS AND WATERWAYS--CONTINUED

HARBOR OR WATERWAY	COMMODITY	TONS	TOTAL TON-MILES	PASSENGERS
NONPROJECT--CONTINUED				
TONGASS NARROWS, ALASKA (CONTINUED)-----	4011 IRON AND STEEL SCRAP-----	1,121	-----	-----
	4112 COMMODITIES, NEC-----	5,908	-----	-----
	4119 EMPTY CONTAINERS-----	211	-----	-----
	TOTAL-----	2,081,080	12,243,801	165,611

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**SECTION 2**  
**TRIPS AND DRAFTS OF VESSELS**

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## **LOS ANGELES, CA, DISTRICT**

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### **TRIPS AND DRAFTS OF VESSELS**

HARBOR OR WATERWAY			DIRECTION			DIRECTION						
DRAFT (FEET)	SELF PROPELLED VESSELS			NON SELF PROPELLED VESSELS		TOTAL	SELF PROPELLED VESSELS			NON SELF PROPELLED VESSELS		TOTAL
	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER		PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	
SAN DIEGO HARBOR, CALIF.						INBOUND						OUTBOUND
40							2					2
30							2					2
37							1					1
35							3					3
34							1					1
33							3					3
32							2					2
31							2					2
30							1					1
29							3					3
28							5					5
27							3					3
26							5					5
25							4					4
24							10					10
23							5					5
22							2					2
21							3					3
20							6					6
19							1					1
18 AND LESS							1					1
	3,921		1,295	614	20	5,050	3,061			614	21	5,004
TOTAL	4,149	16	1,295	614	21	6,095	4,150	16	1,301	614	21	6,102
LONG BEACH HARBOR, CALIF.						INBOUND						OUTBOUND
52							1					2
51							1					1
60							7					7
59							1					1
58							4					4
57							2					2
56							3					3
55							12					12
54							19					19
53							7					7
52							2					2
51							2					2
50							2					2
49							2					2
48							2					2
47							2					2
46							2					2
45							2					2
44							2					2
43							2					2
42							2					2
41							2					2
40							2					2
39							2					2
38							2					2
37							2					2
36							2					2
35							2					2
34							2					2
33							2					2
32							2					2
31							2					2
30							2					2
29							2					2
28							2					2
27							2					2
26							2					2
25							2					2
24							2					2
23							2					2
22							2					2
21							2					2
20							2					2
19							2					2
18 AND LESS							2					2
	19,669	37	15,909	145	3,104	39,064	19,783	52	35,912	181	3,111	38,999
TOTAL	22,232	580	15,921	154	3,178	42,001	22,233	573	35,926	181	3,173	42,056
LOS ANGELES HARBOR, CALIF.						INBOUND						OUTBOUND
51							3					1
50							1					1
49							2					2
48							2					2
47							2					2
46							2					2
45							2					2
44							2					2
43							2					2
42							2					2
41							2					2
40							2					2
39							2					2
38							2					2
37							2					2
36							2					2
35							2					2
34							2					2
33							2					2
32							2					2
31							2					2
30							2					2
29							2					2
28							2					2
27							2					2
26							2					2
25							2					2
24							2					2
23							2					2
22							2					2
21							2					2
20							2					2
19							2					2
18 AND LESS							2					2
	19,669	37	15,909	145	3,104	39,064	19,783	52	35,912	181	3,111	38,999
TOTAL	22,232	580	15,921	154	3,178	42,001	22,233	573	35,926	181	3,173	42,056

EXCLUDES DOMESTIC FISHING CRAFT.

**• EXCLUDED DOMESTIC FIRING CHART**

## Waterborne Commerce of the United States, 1986

## LOS ANGELES, CALIF., DISTRICT

## TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY	DIRECTION						DIRECTION					
	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		TOTAL	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		TOTAL
	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER		PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	
<b>LOS ANGELES HARBOR, CALIF.--(CONTINUED)</b>												
33 -	114	34				140	111	23				134
32 -	109	36				145	92	23				115
31 -	111	37				148	115	19				138
30 -	100	31				131	99	24				125
29 -	124	35				159	102	20				182
28 -	126	48				176	112	18				150
27 -	254	47				301	247	31				278
26 -	138	27				165	106	27				133
25 -	171	20				191	149	36				185
24 -	232	16			1	256	232	25				270
23 -	122	15				137	111	17	1	12		129
22 AND LESS -	3,858	89	14,715	552	6,080	25,304	3,803	230	14,715	555	6,074	25,486
TOTAL -	5,590	616	14,715	553	6,047	27,861	5,808	615	14,715	556	6,087	27,861
<b>PORT HUENEME, CALIF.</b>												
37 -	1	1				1	1					1
36 -							1	1				1
35 -							2	1				2
34 -		1					1	1				2
33 -		2					1	2				2
32 -		1					1	2				2
31 -		2					3	2				2
30 -		2					5	1				3
29 -		3					3	3				5
28 -		4					4	5				6
27 -		11					11	8				8
26 -		13					13	6				6
25 -		21					21	17				17
24 -		23					23	13				14
23 -		22					22	15				15
22 -		13					13	20				20
21 -		8					8	15				15
20 -		8			1		9	17				19
19 -		4			1		5	6				7
18 AND LESS -	1,592	1	33	14	1	1,681	1,596	1	32	14	1	1,684
TOTAL -	1,731	4	35	16	1	1,787	1,731	0	35	16	1	1,787
<b>MISISON BAY, CALIF.</b>												
TOTAL, 12 AND LESS -	174		2			176	174		1			175
<b>MORRO BAY HARBOR, CALIF.</b>												
TOTAL, 8 AND LESS -	1					1	1					1
<b>NEWPORT BAY HARBOR, CALIF.</b>												
TOTAL, 12 AND LESS -			2			3	5			2		5
<b>REDONDO BEACH, CALIF.</b>												
TOTAL, 6 AND LESS -	140		1			141	140		1			141
<b>SANTA BARBARA HARBOR, CALIF.</b>												
NO VESSEL TRIPS REPORTED												
<b>ELLWOOD, CALIF.</b>												
TOTAL, 18 AND LESS -	11,341		9			11,404	11,341		9			11,404
<b>ENCINA, CALIF.</b>												
TOTAL, 40 AND LESS -		6	2			10		6	2		3	11

\* EXCLUDES DOMESTIC FISHING CRAFT.

# SACRAMENTO, CA, DISTRICT

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## TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY		DIRECTION				DIRECTION								
DRAFT (FEET)		SELF PROPELLED VESSELS		NON-SELF PROPELLED VESSELS		TOTAL	SELF PROPELLED VESSELS		NON-SELF PROPELLED VESSELS		TOTAL			
		PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO		PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO				
<b>SACRAMENTO RIVER, CALIF.</b>														
29														
28														
27														
26														
25														
24														
23														
22														
21														
20														
19														
18														
17														
16														
15														
14														
13														
12														
11														
10														
9														
8														
7														
6 AND LESS														
		31												
		96												
	TOTAL	- - - - -	173	8	154	205	1	501	173	8	152	205	1	539
<b>SACRAMENTO RIVER DEEPWATER SHIP CHANNEL, CALIF.</b>														
30														
29														
28														
27														
26														
25														
24														
23														
22														
21														
20														
19														
18														
17														
16														
15														
14														
13														
12														
11														
10														
9														
8														
6 AND LESS														
		16						18						
	TOTAL	- - - - -	46	8	14	33		101	49	8	14	32	103	
<b>SACRAMENTO, CALIF.</b>														
30														
29														
28														
27														
26														
25														
24														
23														
22														
21														
20														
19														
18														
17														
16														
15														
14														
13														
12														
11														
10														
9														
8														
7														
6 AND LESS														
		31						31	31					
		56						63	56					
	TOTAL	- - - - -	133	8	19	21	1	182	136	8	18	21	1	184
<b>SAN JOAQUIN RIVER, CALIF.</b>														
31														
30														
29														
28														
27														
26														
		30						37	33					
		6						8	12					
		2						4	5					
		3						4	2					
		3						5	1					
		6						6	3					

\* EXCLUDES DOMESTIC FISHING CRAFT.

## Waterborne Commerce of the United States, 1986

SACRAMENTO, CALIF., DISTRICT  
TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY	DIRECTION						DIRECTION						
	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS			TOTAL	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		
	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER			PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	
<b>SAN JOAQUIN RIVER, CALIF.--(CONTINUED)</b>													
25 -	7	1					8	2	3				
24 -	3	1					4	3	3				
23 -	3	1					4	0	3				
22 -	2						2	5	1				
21 -	2						2	6	2				
20 -	5						5	1	2				
19 -	2						2	3	1				
18 -	1						3	1	2				
17 -	2						2	2	2				
16 -	1						1	1	2				
15 -	3		4	1	2		10						
14 -	5		5	63	5		73	1	2				
13 -	2		5				2						
12 AND LESS -	69		305	363	7		744	70	1	314	356	10	
TOTAL -	150	17	319	428	16		930	152	18	319	429	17	
												935	
<b>STOCKTON, CALIF.</b>													
29 -	9	10					19	14	3				
28 -	1	1					2						
27 -	1	2					3	1	1				
26 -	5						5	1	3				
25 -	5	1					4						
24 -	3						3	1	2				
23 -	2						2	2	3				
22 -	2						2	3	2				
21 -	2						2	1	2				
20 -	2						2	1	2				
19 -	2						2	2	2				
18 AND LESS -	73		14	4			91	72		13	4	89	
TOTAL -	99	14	14	4			131	99	14	13	4	130	
<b>MIDDLE RIVER, CALIF.</b>													
TOTAL, 10 AND LESS -	16		21				37			16	DOWNBOUND	20	
<b>MOKELOMNE RIVER, CALIF.</b>													
TOTAL, 11 AND LESS -	1		36	40			77			36	DOWNBOUND	40	
<b>OLD RIVER, CALIF.</b>													
TOTAL, 10 AND LESS -	12		52				64			11	DOWNBOUND	88	
												59	

\* EXCLUDES DOMESTIC FISHING CRAFT.

# SAN FRANCISCO, CA, DISTRICT

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## TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY		DIRECTION				DIRECTION					
		SELF PROPELLED VESSELS		NON SELF PROPELLED VESSELS		TOTAL	SELF PROPELLED VESSELS		TOTAL		
DRAFT (FEET)		PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER
<b>SAN FRANCISCO BAY ENTRANCE, CALIF.</b>										<b>DOWNBOUND</b>	
51		4					4				2
50		30					30				8
49		1					1				1
48		1					1				6
47		1					1				6
46		5					5				6
45		4					4				22
44		30					30				23
43		23					23				64
42		11					11				51
41		15					15				70
40		1	13				14	16	6		88
39		3	6				9	16	7		97
38		10	14				28	15	40		138
37		17	22				39	13	38		222
36		29	33				62	40	30		245
35		58	31				94	48	60		262
34		73	25				98	59	58		196
33		106	30				136	102	36		260
32		181	29				210	164	58		236
31		204	34				238	188	57		171
30		212	42				254	214	68		160
29		179	36				215	163	43		146
28		214	37				251	203	56		74
27		205	64			1	270	199	39		800
26		217	43				260	192	71		233
25		196	61				269	170	62		236
24		178	40				220	188	45		170
23		137	39				176	139	11		160
22		123	20	11			155	129	15	11	146
21		100	18				118	149	19		74
20		62	16	19			176	87	22	20	238
19		63	14	4			81	62	9		222
18 AND LESS		144	94	258			780	179	74	262	188
TOTAL		2,732	890	292			2,732	899	293	216	107
		2,628	209	105							6,247
<b>SAN FRANCISCO HARBOR, CALIF.</b>										<b>OUTBOUND</b>	
64		1					1				1
62											1
58											1
57		1	1				2				4
56		1					1				7
55		3					3	4			2
54		4	1				5	7			17
53		8					8	2			21
52		15					15	17			37
51		25					25	21			24
50		29	2				31	33			28
49		30	3				33	23			54
48		39	2				41	26			53
47		51	2				53	52			45
46		49	2				51	50			50
45		54	3			1	48	41			45
44		43	1				44	48	2		50
43		41	3				44	40	4		45
22 AND LESS		15,473	10	2,107			16,081	15,499	9	2,107	397
TOTAL		15,466	31	2,107			16,496	15,864	32	2,107	399
											16,104
<b>REDWOOD CITY HARBOR, CALIF.</b>										<b>OUTBOUND</b>	
30		1					1				1
28		1					1				1
27		1	1				2				1
25							1				1
24		4		150			123	15	292		294
22 AND LESS		7	2	150			123	15	297		297
TOTAL		7	2	150							
<b>OAKLAND HARBOR, CALIF.</b>										<b>OUTBOUND</b>	
35		101					101	112	1		113
34		66					66	49			49
33		95					95	100			100
32		129					129	137			137
31		150					154	150			154
30		154					154	153			153
29		133					133	121			121
28		143	1				144	139	2		141
27		126	2				126	119			119
26		102	1				103	99			99
25		64					64	77	1		79
24		71					71	61	1		82
23		51					51	49			50
22 AND LESS		204	3	3,254			430	150	4,041		4,057
TOTAL		1,613	7	3,254			430	151	5,655		5,654

\* EXCLUDES DOMESTIC FISHING CRAFT.

## Waterborne Commerce of the United States, 1986

SAN FRANCISCO, CALIF., DISTRICT  
TRIPS AND DRAFS OF VESSELS

HARBOR OR WATERWAY		DIRECTION						DIRECTION					
		SELF PROPELLED VESSELS		NON-SELF PROPELLED VESSELS		TOTAL	SELF PROPELLED VESSELS		NON-SELF PROPELLED VESSELS		TOTAL		
DRAFT (FEET)	DRAFS (FEET)	PASSENGER AND DRY CARGO	TANKER	DRY CARGO	TUGBOAT		PASSENGER AND DRY CARGO	TANKER	DRY CARGO	TUGBOAT			
RICHMOND HARBOR, CALIF.													
30	-	22	103				215	21	136				157
29	-	4	12				16	2	13				15
28	-	14	15				32	8	20				29
27	-	9	24			1	36	7	16				23
26	-	32	22				96	17	21				36
25	-	19	21				40	21	19				40
24	-	23	18				1	62	23	18			42
23	-	18	11				1	30	19	11			30
22 AND LESS	-	34	50	1,713	447	316	2,560	57	115	1,714	448	317	2,651
TOTAL	-	175	369	1,713	447	319	3,023	175	369	1,714	449	318	3,025
SAN PABLO BAY AND MARE ISLAND STRAIT, CALIF.													
46	-		1										
45	-		1										
44	-		6										
43	-		5										
42	-		1										
41	-		1										
40	-		1										
39	-		2										
38	-		5										
37	-		18										
36	-		30										
35	-		2	26		5							
34	-		3	23									
33	-		3	31									
32	-		27	66									
31	-		14	64									
30	-		20	34									
29	-		12	30									
28	-		23	28									
27	-		20	50									
26	-		33	63									
25	-		40	62		12							
24	-		39	29									
23	-		27	27									
22 AND LESS	-	151	136	1,642	734	435	3,098	172	188	1,642	789	436	3,187
TOTAL	-	614	700	1,642	751	442	3,099	418	690	1,642	751	443	3,099
CARQUINEZ STRAIT, CALIF.													
33	-		8	126									
32	-		27	54									
31	-		13	52									
30	-		19	29									
29	-		12	23									
28	-		23	17									
27	-		20	30									
26	-		33	20									
25	-		40	23		12							
24	-		30	18									
23	-		27	21									
22 AND LESS	-	153	112	1,609	741	467	3,082	169	143	1,609	756	464	3,141
TOTAL	-	614	525	1,609	758	469	3,075	413	525	1,609	758	469	3,075
BUTRUM BAY CHANNEL, CAL.													
36	-		1										
35	-												
34	-												
33	-		2										
32	-	24	6										
31	-	6	8										
30	-	7	5										
29	-	10	3										
28	-	6	7										
27	-	10	3										
26	-	7	7										
25	-	10	2			12							
24	-	5	6										
23	-	7	6										
22	-	6	1										
21	-	7											
20	-	7	1	4									
19	-	5	1										
18 AND LESS	-	85	50	646	661	63	1,505	73	4	646	616	58	1,399
TOTAL	-	201	111	650	674	63	1,699	200	115	650	674	60	1,699
HUMBOLDT HARBOR AND BAY, CALIF.													
35	-												
34	-												
33	-												
32	-												
31	-												
30	-												
29	-												
28	-												
TOTAL	-												
OUTBOUND													
INBOUND													

\* EXCLUDES DOMESTIC FISHING CRAFT.

TANKERS WITH EXTREME DRAFS WERE LIGHTERED FROM ANCHORAGES IN SAN FRANCISCO BAY DEEPWATER AREA.

**SAN FRANCISCO, CA, DISTRICT**

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## **TRIPS AND DRAFTS OF VESSELS**

HARBOR OR WATERWAY			DIRECTION				DIRECTION				
DRAFT (FEET)	SELF PROPELLED VESSELS			NON SELF PROPELLED VESSELS		TOTAL	SELF PROPELLED VESSELS			TOTAL	
	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER		PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT		
HUMBOLDT HARBOR AND BAY, CALIF.--(CONTINUED)						INBOUND				OUTBOUND	
27 - - - - -	10	5					15	10	2		
26 - - - - -	5	4					9	11	4		
25 - - - - -	15	2					15	10	2		
24 - - - - -	16	1					18	11	4		
23 - - - - -	15						15	9	6		
22 - - - - -	9						9	3			
21 - - - - -	3						3	1			
20 - - - - -	6						6	2			
19 - - - - -	3						3	1			
18 AND LESS - - - - -	6						3			1	
TOTAL - - - - -	102	16	1,261	60	43	1,370	3	1,262	60	43	1,368
BERKELEY, CALIF.						INBOUND				OUTBOUND	
TOTAL, 7 AND LESS - - - - -	696						696	696			696
BOBEGA BAY, CALIF.				NO VESSEL TRIPS REPORTED							
CRESCENT CITY HARBOR, CALIF.						INBOUND				OUTBOUND	
TOTAL, 15 AND LESS - - - - -				2			2			2	
HALF MOON BAY, CALIF.						INBOUND				OUTBOUND	
TOTAL, 8 AND LESS - - - - -				1	1		2			2	
MONTEREY HARBOR, CALIF.						INBOUND				OUTBOUND	
TOTAL, 7 AND LESS - - - - -				1	1		2			2	
MOSS LANDING HARBOR, CALIF.						INBOUND				OUTBOUND	
TOTAL, 6 AND LESS - - - - -				1	2		3			1	
NAPA RIVER, CALIF.						UPBOUND				DOWNBOUND	
TOTAL, 11 AND LESS - - - - -				18	19		37			18	
NOYO RIVER, CALIF.				NO VESSEL TRIPS REPORTED							
PETALUMA RIVER, CALIF.						UPBOUND				DOWNBOUND	
TOTAL, 12 AND LESS - - - - -				118	125		243			124	
BAN RAFAEL CREEK, CALIF.						UPBOUND				DOWNBOUND	
TOTAL, 7 AND LESS - - - - -				4			4			4	
SANTA CRUZ HARBOR, CALIF.				NO VESSEL TRIPS REPORTED							
SUISUN CHANNEL, CALIF.						UPBOUND				DOWNBOUND	
TOTAL, 7 AND LESS - - - - -				16	16		32			16	
OTHER SAN FRANCISCO BAY AREA PORTS, CALIF.						INBOUND				OUTBOUND	
TOTAL, 45 AND LESS - - - - -	11,263	348	2,451	1,899	256	16,217	11,262	348	2,452	1,898	16,216

*Waterborne Commerce of the United States, 1986*  
**PACIFIC OCEAN DIVISION**

TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY	DIRECTION						DIRECTION							
	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS			TOTAL	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS			TOTAL
	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	DRY CARGO	TANKER		
HILO HARBOR, HAWAII, HAWAII														
33														
30														
29														
28														
27														
26														
25														
24														
23														
22														
21														
20														
19														
18 AND LESS														
	31	4	296	315	71	713	26	291	312	71	702			
TOTAL	38	4	296	307	71	756	36	291	309	71	751			
KAHIAHE HARBOR, HAWAII, HAWAII														
35														
34														
31														
30														
29														
28														
27														
26														
25														
18 AND LESS														
	1		165	266	7	439	1	164	267	7	439			
TOTAL	6	2	165	271	7	451	6	164	272	7	451			
KAHULUI HARBOR, MAUI, HAWAII														
34														
33														
32														
31														
30														
29														
28														
27														
26														
25														
24														
23														
22														
21														
20														
19														
18 AND LESS														
	3		437	502	79	1,104	2	440	505	78	1,103			
TOTAL	20	0	437	625	79	1,177	25	440	626	78	1,177			
BARBER POINT HARBOR, OAHU, HAWAII														
47														
46														
45														
44														
43														
42														
41														
40														
39														
38														
37														
36														
35														
34														
33														
32														
31														
30														
29														
28														
27														
26														
25														
24														
23														
22														
21														
20														
19														
18														
17														
16														
15														
14														
13														
12 AND LESS														
	1		29	45	15	3	1	29	45	15	3			
TOTAL	1	76	350	6	102	535	2	77	342	9	98	528		
MONOLU HARBOR, OAHU, HAWAII														
37														
36														
	3	10	5											
TOTAL	3	10	5											
INBOUND														
OUTBOUND														

\* EXCLUDED DOMESTIC FISHING CRAFT.

## PACIFIC OCEAN DIVISION

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## TRIPS AND DRAFFTS OF VESSELS

HARBOR OR WATERWAY	DIRECTION						DIRECTION					
	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		TOTAL	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		TOTAL
	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER		PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	
HONOLULU HARBOR, OAHU, HAWAII--(CONTINUED)						INBOUND						OUTBOUND
35	15	2					17	8				12
34	33	4					37	22				22
33	78	0					35	10				15
32	35						35	22				29
31	33	5					35	19				34
30	31	2					35	19				24
29	22						25	14				20
28	119	2					18	18				186
27	17						30	20				45
26	32	2					35	22				52
25	31						31	20				46
24	26						16	12				47
23	30	1					31	20				36
22	15	2					32	20				35
21	15	2	1				16	12		2		16
20	7		10				25	8		17		27
19	10		1				11	10		2		17
18 AND LESS	1,780	2	1,703	2,103	435	6,025	1,978	1,978	2,174	2,095	435	6,015
TOTAL	2,272	51	1,703	2,174	435	6,075	2,078	31	1,703	2,078	435	6,075
HANILINILI HARBOR, KAHAM, HAWAII						INBOUND						OUTBOUND
32							8	1				1
30		1					8	0				3
29												1
28												1
25												3
21		1					2	2				3
20							2	2				3
19							2	2				3
18 AND LESS	6		212	395	20	600	9		210	395	27	597
TOTAL	9		212	395	20	607	0		210	395	27	606
HANA HARBOR, MAUI, HAWAII						INBOUND						OUTBOUND
TOTAL, 18 AND LESS			1	1			2			1	1	2
KAILUA HARBOR, OAHU, HAWAII						NO VESSEL TRIPS REPORTED						
KALAUPAPA HARBOR, MOLOKAI, HAWAII							4	4				8
TOTAL, 12 AND LESS								0				
KAUNAKAKAI HARBOR, MOLOKAI, HAWAII							293	306	7	300		667
TOTAL, 22 AND LESS										293	306	667
PORT ALLEN HARBOR, KAUAI, HAWAII							1	3	18	0	1	13
TOTAL, 20 AND LESS		1	7					3	0	0	1	3
NAKE ISLAND HARBOR, NAKE ISLAND							2	1	3	0		3
TOTAL, 18 AND LESS								3	0	0		3
HELLS HARBOR, MIDWAY ISLAND							0	3	7	0	3	7
TOTAL, 18 AND LESS								3	0	0		3
KAUNALAPAU HARBOR, LANAI, HAWAII							595	274	262	1,018	595	1,112
TOTAL, 12 AND LESS										274	262	1,112

\* EXCLUDES DOMESTIC FISHING CRAFT.

*Waterborne Commerce of the United States. 1986*  
**WALLA WALLA, WA, DISTRICT**

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## **TRIPS AND DRAFFTS OF VESSELS**

HARBOR OR WATERWAY		DIRECTION						DIRECTION					
DRAFT (FEET)	PASSENGER AND DRY CARGO	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		TOTAL	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		TOTAL
		TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	PASSENGER AND DRY CARGO		TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER		
COLUMBIA RIVER AND TRIBUTARIES ABOVE MCNARY LOCK AND DAM TO KENNEWICK, 44SH.						UPBOUND					DOWNBOUND		
14 - - - - -				48	216	264					41	190	231
13 - - - - -				10	3	13					103	6	109
12 AND LESS- - - - -	45	1	1,436	1,067	604	3,103	45	1	1,436		981	627	3,050
TOTAL- - - - -	45	1	1,436	1,125	823	3,360	45	1	1,436	1,125	823		3,360
SNAKE RIVER, OREG., WASH., AND IDAHO				50	9	59					64	122	769
14 - - - - -				175	1	176					136	3	139
13 - - - - -				307	364	102	693	1	307	364	251		1,003
12 - - - - -				520	15	535					520	34	563
11 - - - - -				195	24	219					195	107	1
10 - - - - -				93	109	91	616				47	36	86
9 - - - - -				412	79	37	520				412	90	543
8 - - - - -				26	65	21	152	38			21	65	125
7 - - - - -				5	13	1	13	1			17	5	23
6 - - - - -				130	222	1	382				4	1	5
5 - - - - -				155	155	5					126	222	350
4 - - - - -				202	232	501	64				103	165	268
3 - - - - -	6		3			3							3
2 - - - - -	68												
1 - - - - -	3												
TOTAL- - - - -	111	564	1,731	1,472	696	4,372	111	564	1,731	1,472	696		4,372

# PORTLAND, OR, DISTRICT

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## TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY		DIRECTION						DIRECTION							
		SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS			TOTAL	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS			TOTAL
		PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	PASSENGER AND DRY CARGO		TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER			
COLUMBIA RIVER ENTRANCE, OREG. AND WASH.															
40															
39															
38															
37															
36															
35															
34															
33															
32															
31															
30															
29															
28															
27															
26															
25															
24															
23															
22															
21															
20															
19															
18 AND LESS															
	16,861	8	233	80	116	17,290	16,775	33	246	114	121	17,299			
TOTAL	18,402	174	272	124	120	19,092	18,402	173	275	126	122	19,098			
COLUMBIA RIVER, MOUTH TO INTERNATIONAL BOUNDARY															
38															
37															
36															
35															
34															
33															
32															
31															
30															
29															
28															
27															
26															
25															
24															
23															
22															
21															
20															
19															
18															
17															
16															
15															
14															
13															
12															
11															
10															
9															
8															
7															
6															
5															
4															
3															
2															
1															
TOTAL	93,426	180	17,590	5,596	1,731	60,521	43,426	179	17,597	5,596	1,730	60,518			
COLUMBIA AND LOWER WILLAMETTE RIVERS BELOW VANCOUVER, WASH., AND PORTLAND, OREG.															
40															
39															
38															
37															
36															
35															
34															
33															
32															
31															
30															
29															
28															
27															
26															
25															
24															
23															
22															

\* EXCLUDES DOMESTIC FISHING CRAFT.

## Waterborne Commerce of the United States, 1986

PORTLAND, OREG., DISTRICT  
TRIPS AND DRAFFTS OF VESSELS

HARBOR OR WATERWAY		DIRECTION						DIRECTION							
		SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS			TOTAL	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS			TOTAL
		PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER			PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER		
COLUMBIA AND LOWER WILLAMETTE RIVERS BELOW VANCOUVER, WASH., AND PORTLAND, OREG.--(CONTINUED)															
21		160	3		23		186	48	11						
20		139	7	48	29		222	56	10	25		5	84	62	
19		132	1	5			138	28	4	8				36	
18 AND LESS--		28,794	9	22,784	6,573	1,863	60,043	28,747	35	22,807	6,627	1,801		60,017	
TOTAL--		30,365	184	22,837	6,640	1,867	61,913	30,365	183	22,836	6,660	1,866		61,910	
PORT OF ASTORIA, OREG.															
60															
37		1						1	1					1	
36									2					2	
35									4					4	
34		3							5					5	
33		6							8					8	
32		7							9					9	
31		3							6					6	
30		9	2						1					7	
29		5							6					6	
28		7	1						8					5	
27		5							5					3	
26		6							5					4	
25		10							10					10	
24		10							18					14	
23		19							19					19	
22		31							31					31	
21		26							38					45	
20		22	23		12				45	22				37	
19		21	5						26	21	15			25	
18 AND LESS--		63	1,192	97	167				50		1,200	96	167	1,513	
TOTAL--		257	3	1,220	109	167		1,756	258	2	1,219	110	167	1,752	
PORTS OTHER THAN PORTLAND, ASTORIA, ST. HELENS, LONGVIEW, VANCOUVER AND KALAMA															
TOTAL, 18 AND LESS--		118		3,930	1,109	66		5,221	124		3,929	1,109	66	5,220	
PORT OF LONGVIEW, WASH.															
60															
39		6							10					10	
38		6	6						16					17	
37		6	6						28					26	
36		3							6					6	
35		8							17					17	
34		1							21					21	
33		1							43					43	
32		8							34					34	
31		8							35					33	
30		6							29					29	
29		19							19					19	
28		11							20					20	
27		16							11	16				18	
26		16							16	27				27	
25		13							13	10				10	
24		14							5					5	
23		27							14	6				6	
22		29							29	10				10	
21		48							44	2				2	
20		50							50	1				1	
19		26							26					1	
18		27	9		20				56	10				27	
17		8	3		1				12			3		6	
16		6	6		1				13			3		6	
15		22							22			12		16	
14		18	45	1					64			16		17	
13		26	78	12					176			16	2	18	
12 AND LESS--		674	2,620	740	118				4,952	474		2,622	659	134	4,089
TOTAL--		841	2,704	863	153				4,561	841	1	2,704	863	153	4,562
PORT OF KALAMA, WASH.															
60		6							6						
39		5							3						
38		5							3						
37		3							3						
35		3							2						
34		3							3						
32		1							1						
31		1							1						
30		2							2						
29		1							1						
28		1							1						
27		1							1						
26		2							1						
25		1							1						
24		1							1						
23		2							1						
22		1							1						

\* EXCLUDES DOMESTIC FISHING CRAFT.

## PORTLAND, OR, DISTRICT

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## TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY	DRAFT (FEET)	DIRECTION						DIRECTION					
		SELF PROPELLED VESSELS			NON SELF PROPELLED VESSELS			SELF PROPELLED VESSELS			NON SELF PROPELLED VESSELS		
		PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	TOTAL	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	TOTAL
<b>PORT OF KALAMA, WASH.--(CONTINUED)</b>													
21		3											OUTBOUND
20		1											2
18 AND LESS-		20		504	58	46	632	26		504	57	40	627
TOTAL-		49	8	504	60	46	667	50	9	504	57	40	660
<b>MULTNOMAH CHANNEL, OREG.</b>													
14													DOWNBOUND
13													1
12													7
11													2
10													373
9													93
8													300
7													116
6													668
5													497
4													5
3													40
2													229
TOTAL-		316	1	1,178	614	173	2,281	314		1,172	614	171	2,271
<b>OREGON SLOUGH (NORTH PORTLAND HARBOR), OREG.</b>													
15													DOWNBOUND
14													163
13													15
12													150
11													190
10													107
9													367
8													411
7													129
6													80
5													95
4													3
3													30
2													181
1													11
TOTAL-		39	1	1,306	559	45	1,949	37		1,304	559	44	1,944
<b>PORT OF VANCOUVER, WASH.</b>													
33													OUTBOUND
32													9
31													5
30													3
29													6
28													2
27													5
26													9
25													9
24													14
23													12
22													12
21													11
20													17
19													9
18 AND LESS-		2,112	2	3,196	609	427	6,386	2,143	4	3,193	609	426	6,375
TOTAL-		2,269	10	3,200	610	427	6,516	2,268	9	3,190	609	426	6,511
<b>COLUMBIA RIVER BETWEEN VANCOUVER, WASH., AND THE DALLES, OREG.</b>													
16													DOWNBOUND
15													1
14													20
13													313
12													163
11													988
10													520
9													289
8													686
7													802
6 AND LESS-		4,854	1	650	209	53	5,766	550	10	242	4,854	1	2,981
TOTAL-		5,729	3	4,484	2,981	725	13,922	5,729	1	4,483	2,981	725	13,919
<b>COLUMBIA RIVER ABOVE THE DALLES, OAW, WASH, AND OREG, TO MCNARY LOCK AND DAM, OREG, AND WASH.</b>													
15													17
14													207
13													188
12													1,027
11													307
10													231
9													96

\* EXCLUDES DOMESTIC FISHING CRAFT.

## Waterborne Commerce of the United States, 1986

PORTLAND, OREG., DISTRICT  
TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY		DIRECTION					DIRECTION					
		SELF PROPELLED VESSELS		NON SELF PROPELLED VESSELS		TOTAL	SELF PROPELLED VESSELS		NON SELF PROPELLED VESSELS		TOTAL	
DRAFT (FEET)	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER		PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	
COLUMBIA RIVER ABOVE THE DALLES DAW, WASH, AND OREG. TO MCNARY LOCK AND DAW, OREG. AND WASH.--(CONTINUED)												
8 -												
7 -												
6 -												
5 -												
4 -												
3 -												
2 -												
TOTAL -	31	1	770	1,167	698	2,667	32	1	770	1,167	698	2,668
PORT OF PORTLAND, OREG.												
39 -												
38 -												
37 -												
36 -												
35 -												
34 -												
33 -												
32 -												
31 -												
30 -												
29 -												
28 -												
27 -												
26 -												
25 -												
24 -												
23 -												
22 -												
21 -												
20 -												
19 -												
18 AND LESS -	872	8	15,603	4,792	1,519	22,794	755	30	15,606	4,841	1,522	22,794
TOTAL -	1,652	165	15,617	4,853	1,523	23,810	1,653	167	15,617	4,850	1,523	23,810
HILLAMETTE RIVER ABOVE PORTLAND AND YAMHILL RIVER, OREG.												
12 -												
11 -												
10 -												
9 -												
8 -												
7 -												
6 -												
5 -												
4 -												
3 -												
2 -												
1 -												
TOTAL -	162	8,116	4,081	153	8,512	161	8,117	4,081	157	8,516		
COOS BAY, OREG.												
36 -												
35 -												
34 -												
33 -												
32 -												
31 -												
30 -												
29 -												
28 -												
27 -												
26 -												
25 -												
24 -												
23 -												
22 -												
21 -												
20 -												
19 -												
18 -												
17 -												
16 -												
15 -												
14 -												
13 -												
12 AND LESS -	3	2,437	155	24	2,619	1	2,465	157	17	2,640		
TOTAL -	270	12	2,484	172	27	2,974	276	12	2,502	167	19	2,976
COOS AND MILLICOMA RIVERS, OREG.												
8 -												
7 -												
6 -												
5 -												
4 -												
3 -												
TOTAL -	943		943		943		933		933		933	

\* EXCLUDES DOMESTIC FISHING CRAFT.

**PORTLAND, OR, DISTRICT**

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### **TRIPS AND DRAFFTS OF VESSELS**

\* EXCLUDES DOMESTIC FISHING CRAFT.

## Waterborne Commerce of the United States, 1986

PORTLAND, OREG., DISTRICT  
TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY	DIRECTION						DIRECTION							
	SELF PROPELLED VESSELS			NON SELF PROPELLED VESSELS			TOTAL	SELF PROPELLED VESSELS			NON SELF PROPELLED VESSELS			TOTAL
DRAFT (FEET)	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER			PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER		
PORT ORFORD, OREG.	NO VESSEL TRIPS REPORTED													
ROGUE RIVER, OREG. TOTAL, 3 AND LESS - - - - -	689					UPBOUND	689	689					DOWNBOUND	689
SUSLAW RIVER, OREG. TOTAL, 5 AND LESS - - - - -			155			UPBOUND	155				155		DOWNBOUND	155
SKAMOKAWA (STEAMBOAT) SLOUGH, WASH. TOTAL, 7 AND LESS - - - - -			2			UPBOUND	2				1		DOWNBOUND	1
SKAMOKAWA CREEK, WASH. TOTAL, 8 AND LESS - - - - -			3			UPBOUND	3				3		DOWNBOUND	3
SKIPANON CHANNEL, OREG. TOTAL, 8 AND LESS - - - - -		241	190			UPBOUND	431			260	191		DOWNBOUND	431
SMITH RIVER, OREG. TOTAL, 9 AND LESS - - - - -		22	3			UPBOUND	25			22	3		DOWNBOUND	25
TILLAMOOK BAY AND BAR, OREG. TOTAL, 7 AND LESS - - - - -		3				INBOUND	3			3			OUTBOUND	3
WESTPORT SLOUGH, OREG. TOTAL, 9 AND LESS - - - - -	4,335		3			UPBOUND	4,335	4,335		3			DOWNBOUND	4,335
YACQUINA RIVER, OREG. TOTAL, 8 AND LESS - - - - -		1				UPBOUND	1			1			DOWNBOUND	1
YOUNGS BAY AND YOUNGS RIVER, OREG. TOTAL, 10 AND LESS - - - - -		146	1			UPBOUND	147			150	1		DOWNBOUND	151

\* EXCLUDES DOMESTIC FISHING CRAFT.

# SEATTLE, WA, DISTRICT

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## TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY	DIRECTION					DIRECTION				
	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		TOTAL	SELF PROPELLED VESSELS			TOTAL
	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER		PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	
<b>GRAYS HARBOR AND CHEHALIS RIVER, WASH.</b>										
35 - - - - -										OUTBOUND
34 - - - - -										102
33 - - - - -										5
32 - - - - -										7
31 - - - - -										11
30 - - - - -										1
29 - - - - -										4
28 - - - - -										1
27 - - - - -										2
26 - - - - -										4
25 - - - - -										2
24 - - - - -										1
23 - - - - -										2
22 - - - - -										2
21 - - - - -										1
20 - - - - -										2
19 - - - - -										12
18 - - - - -										12
17 - - - - -										3
16 - - - - -										2
15 - - - - -										127
14 - - - - -										6
13 - - - - -										9
12 AND LESS- - - - -	10,000	662	798	5	11,845	10,000	664	558	7	11,629
TOTAL- - - - -	10,557	2	692	800	5	12,059	10,556	2	697	800
										12,066
<b>PORT ANGELES HARBOR, WASH.</b>										
30 - - - - -										OUTBOUND
29 - - - - -										85
28 - - - - -										12
27 - - - - -										14
26 - - - - -										3
25 - - - - -										6
24 - - - - -										3
23 - - - - -										6
22 - - - - -										9
21 - - - - -										5
20 - - - - -										2
19 - - - - -										23
18 - - - - -										10
17 - - - - -										10
16 - - - - -										13,745
15 - - - - -										13,745
14 AND LESS- - - - -	9,609	9	3,500	370	304	13,791	9,571	11	3,506	356
TOTAL- - - - -	9,722	23	3,513	370	304	13,932	9,716	23	3,515	366
										13,923
<b>PORT TOWNSEND HARBOR, WASH.</b>										
TOTAL, 22 AND LESS- - - - -	1,265	2	628	429	82	2,406	1,263	2	625	427
										2,407
<b>PORT GAMBLE HARBOR, WASH.</b>										
16 - - - - -										OUTBOUND
15 - - - - -										85
14 - - - - -										12
13 - - - - -										14
12 AND LESS- - - - -										3
TOTAL- - - - -										6
										11
										36
										64
										63
										780
<b>HAMMERSLEY INLET, WASH.</b>										
13 - - - - -										OUTBOUND
12 - - - - -										1
10 - - - - -										1
9 - - - - -										109
8 - - - - -										109
7 - - - - -										34
6 AND LESS- - - - -										34
TOTAL- - - - -	2,889	239	2	48	88	3,130	2,889	2	5	285
										7
										2,894
										3,330
<b>OLYMPIA HARBOR, WASH.</b>										
30 - - - - -										OUTBOUND
29 - - - - -										15
28 - - - - -										1
27 - - - - -										1
26 - - - - -										2
25 - - - - -										1
24 - - - - -										3
23 - - - - -										2
22 - - - - -										1
21 - - - - -										1
20 - - - - -										1
19 - - - - -										1
18 AND LESS- - - - -	1,681	301	7	8	1,697	1,674	298	7	7	1,986
TOTAL- - - - -	1,700	301	7	8	2,016	1,701	298	7	7	2,015
<b>TACOMA HARBOR, WASH.</b>										
35 - - - - -										OUTBOUND
34 - - - - -										97
33 - - - - -										38
										20

\* EXCLUDED DOMESTIC FISHING CRAFT.

## Waterborne Commerce of the United States, 1986

SEATTLE, WASH., DISTRICT  
TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY		DIRECTION					DIRECTION						
DRAFT (FEET)		SELF PROPELLED VESSELS			TOTAL	SELF PROPELLED VESSELS			NON SELF PROPELLED VESSELS		TOTAL		
		PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT		DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER			
TACOMA HARBOR, WASH.--(CONTINUED)													
32	-	12	12										
31	-	17	1			18	41	5			46		
30	-	38	6			44	46	12			48		
29	-	34	4			38	39	6			45		
28	-	73	13			91	180	6			104		
27	-	145	15			160	48	4			52		
26	-	91	24			115	77	4			81		
25	-	59	11			70	50	11			61		
24	-	76	8		1	85	37	8			85		
23	-	76	7			83	59	4			63		
22	-	63	2			95	39	3			42		
21	-	34	5			99	27	2			29		
20	-	36	3	6	1	98	42	11	8	5	64		
19	-	33	2			106	24	1	4	1	30		
18	-	23	1			114	58	1		4	598		
17	-	9	7	5,592		5,608	11	19	5,609		5,635		
16	-	16	40			61	7		39	2	53		
15	-	10	1	400		472	8	3	410	10	32		
14	-	1	2	186		250	1	2	198	5	290		
13	-	6	1	717		760	2	2	741	26	27		
12 AND LESS--	-	4,785	15	5,051	1,216	988	12,011	4,785	8,997	1,217	913	11,988	
TOTAL--	-	6,265	158	11,994	1,265	1,072	20,754	6,266	153	12,002	1,264	1,069	20,758
SEATTLE HARBOR, WASH.													
35	-	40	11			51	45	7			52		
34	-	19				19	16				16		
33	-	27	2			29	17				17		
32	-	40	7			87	46				46		
31	-	45	1			86	36	2			38		
30	-	75	4			79	70				70		
29	-	70	1			71	100	2			102		
28	-	79	5			84	50	6			56		
27	-	89				90	61	6			67		
26	-	116	8			124	151	11			162		
25	-	111	6			119	60	11			100		
24	-	91	6		1	93	64	4			68		
23	-	71	2			73	68	2		2	89		
22	-	32	5	2		39	46	2			49		
21	-	25	1			30	32				33		
20	-	48	3	39		119	63	6	49	5	123		
19	-	27	9	11		87	30	1	6		37		
18 AND LESS--	-	35,543	95	14,156	3,222	3,973	56,989	35,550	106	14,148	3,242	1,977	55,023
TOTAL--	-	36,549	167	18,206	3,249	1,978	56,149	36,550	106	14,205	3,249	1,978	56,148
LAKEASHINGTON SHIP CANAL, WASH.													
23	-												
22 AND LESS--	-	506	61	2,196	942	125	3,910	501	61	2,196	941	125	3,914
TOTAL--	-	506	61	2,196	942	125	3,910	501	61	2,196	942	125	3,915
EVERETT HARBOR AND SNOHOMISH RIVER, WASH.													
30	-												
33	-	7				7	21				21		
32	-	2				2	24				24		
31	-	1				1	11				11		
30	-	1				1	5				5		
29	-	1				1	24				24		
28	-	1				1	4				4		
27	-	1				1	6				6		
26	-	3				3	11				11		
25	-	7				7	1				1		
24	-	5				5	1				1		
23	-	5				5	6				6		
22	-	10				10	5				5		
21	-	6				6	1				1		
20	-	23				23	4				4		
19	-	17				17	1				1		
18 AND LESS--	-	6,414		2,678	302	156	7,550	4,382		2,681	302	156	7,521
TOTAL--	-	6,511		2,678	302	156	7,647	4,511		2,681	302	156	7,650
SNOHOMISH CHANNEL, WASH.													
12	-												
11	-	25				25							
10	-	65				65							
9	-	56				56							
8	-	70				70							
7	-	42				42							
6 AND LESS--	-	8,196	43	219	47		8,279			32		32	
TOTAL--	-	8,196		566	47		8,809	8,196		313	3	8,512	
ANACORTES HARBOR, WASH.													
33	-	3	180			171	5	63			68		
32	-	2				2	2	17			19		
31	-	3				3	1	9			20		

\* EXCLUDES DOMESTIC FISHING CRAFT.

## TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY		DIRECTION						DIRECTION								
DRAFT (FEET)	HARBOUR OR WATERWAY	SELF PROPELLED VESSELS			NON SELF PROPELLED VESSELS			SELF PROPELLED VESSELS			NON SELF PROPELLED VESSELS					
		PASSENGER AND DRY CARGO	TANKER	YACHT OR TUGBOAT	DRY CARGO	TANKER	TOTAL	PASSENGER AND DRY CARGO	TANKER	YACHT OR TUGBOAT	DRY CARGO	TANKER	TOTAL			
ANACORTES HARBOR, WASH. -- (CONTINUED)																
30																
29																
28																
27																
26																
25																
24																
23																
22																
21																
20																
19																
18 AND LESS																
11,083		32	1,996		159	262	13,532	11,078		37	1,996	158	269	13,538		
TOTAL		11,096	251	1,998	159	263	13,767	11,094	250	1,998	159	271	13,772			
BELLINGHAM BAY AND HARBOR, WASH.																
30																
29																
28																
27																
26																
25																
24																
23																
22																
21																
20																
19																
18 AND LESS																
31,512		14	1,551		280	193	33,550	31,504		4	1,551	280	193	33,552		
TOTAL		31,549	38	1,551	282	193	33,613	31,545		39	1,551	282	193	33,610		
BLAINE HARBOR, WASH.																
TOTAL, 5 AND LESS		13,862														
COLUMBIA RIVER BETWEEN RENATCHEE AND KETTLE FALLS, WASH.																
TOTAL, 12 AND LESS		12,616		3												
FLATHEAD LAKE, MONT.		NO VESSEL TRIPS REPORTED														
MOQUIAM RIVER, WASH.																
TOTAL, 18 AND LESS		2,502		350		12	4	2,868	2,502		347					
KOOTENAI RIVER, IDAHO AND MONT.		NO VESSEL TRIPS REPORTED														
VEAH BAY, WASH.																
TOTAL, 19 AND LESS		11,075		2												
QUITLAYUTE RIVER, WASH.																
TOTAL, 8 AND LESS		2,363														
SKAGIT RIVER, WASH.																
TOTAL, 17 AND LESS		81														
STILLAGJAMISH RIVER, WASH.		NO VESSEL TRIPS REPORTED														
WATERWAY CONNECTING PORT TOWNSEND BAY AND OAK BAY, WASH.																
TOTAL, 15 AND LESS		9		56		NORTHBOUND	28	1	89	6	59	SOUTHBOUND	32	1	96	
MILLAPA RIVER AND HARBOR, AND VASELLE RIVER, WASH.																
TOTAL, 12 AND LESS		9,907														
COEUR D'ALENE LAKE AND ST. JOE RIVER, IDAHO																
TOTAL, 7 AND LESS		947														
OTHER PUGET SOUND AREA PORTS, WASH.																
TOTAL, 57 AND LESS		41,050		237	5,129	INBOUND	2,391	459	50,166	41,950	243	5,128	OUTBOUND	2,387	458	50,166

\* EXCLUDES DOMESTIC FISHING CRAFT.

*Waterborne Commerce of the United States, 1986*  
**ALASKA DISTRICT**

TRIPS AND DRAFFTS OF VESSELS

HARBOR OR WATERWAY		DIRECTION				TRIPS				
		SELF PROPELLED VESSELS		NON SELF PROPELLED VESSELS		TOTAL	SELF PROPELLED VESSELS		NON SELF PROPELLED VESSELS	
DRAFT (FEET)	PASSENGER AND DRY CARGO	TANKER	FISHBOAT OR YACHT	DRY CARGO	TANKER		PASSENGER AND DRY CARGO	TANKER	FISHBOAT OR YACHT	DRY CARGO
<b>KETCHIKAN HARBOR, ALASKA</b>										
32						2	5			OUTBOUND
31							3			5
30						2	16			16
29						6	13	1		14
28						37	41	3		44
27						30	39	1		40
26						20	19			18
25						30	34	1		35
24						32	30	2		32
23						49	53			53
22						72	23	1		24
21						18	6	3	2	11
20						112	105	6	6	115
19						46	36	3	1	40
18						19	16	3	1	20
17						6	4	4	1	9
16						262	255	6		261
15						602	557	39	16	912
14						199	17	188	3	208
13						172	3	110	26	181
12 AND LESS						483	347	495	371	95
						13,138	14,058	13,132		14,093
TOTAL						14,687	8	857	422	97
<b>WRANGELL HARBOR, ALASKA</b>										
33						1	4			OUTBOUND
32							1			4
31						1	3			13
30						1	1			1
29						5	5			5
28						4	2			2
25						8	7			7
24						1				
23							1			1
22							2			2
21						3	1	1	1	3
20						96	92	1	1	93
19						1				
18						4		1		1
17						4		3		3
16						7	2			8
15						610	591	1	15	610
14						96		93	4	97
13						61	2	48	10	61
12 AND LESS						378	299	378	302	24
						43				
TOTAL						756	527	339	24	1,646
<b>WRANGELL NARROWS, ALASKA</b>										
20						93	1	93	1	94
17						10	1	7		8
16						113	29	153	113	126
15						61	24	967	602	942
14						115	9	133	172	176
13						37	16	74	56	79
12 AND LESS						100	85	857	290	862
						337	335	100	372	100
TOTAL						1,198	572	413	105	2,287
<b>KAKE HARBOR, ALASKA</b>										
21						2	3			3
16						138		138	137	137
15						71		70		70
13						9	8			8
12						1	13	1		15
11						3	5	3	1	4
10						32	3	32	4	42
9						16	2	16	2	23
8						4	3	4	1	8
7						29		30	29	30
6						1	3	1		3
5							1		1	2
4							3		3	3
3							2		3	3
2						10	10		6	6
TOTAL						229	85	32	11	357
<b>SITKA HARBOR, ALASKA</b>										
29						28	32			32
26						6	2			2
27						12	17			17
26						18	17			17
25						33	28			28
24						21	22			22
23						3	2			2
20						58	53	6		59
19						21	18	2		20
18						16	3	12		15
17						21	3	9	1	13

\* EXCLUDES DOMESTIC FISHING CRAFT.

## **ALASKA DISTRICT**

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## TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY		DIRECTION				DIRECTION			
DRAFT (FEET)		SELF-PROPELLED VESELS		NON SELF-PROPELLED VESELS		SELF-PROPELLED VESELS		NON SELF-PROPELLED VESELS	
		PASSENGER AND DRY CARGO	TANKER	TOWBOAT AND TUG BOAT	TANKER	PASSENGER AND DRY CARGO	TANKER	TOWBOAT AND TUG BOAT	TANKER
<b>SITKA HARBOR, ALASKA--(CONTINUED)</b>		INBOUND				OUTBOUND			
16 -	-	253	14	26	293	257	10	7	274
15 -	-	217	28	25	273	220	22	31	275
14 -	-	10	88	7	9	114	11	78	93
13 -	-	1	20	10	11	42	3	15	11
12 AND LESS--	-	63	214	185	44	510	78	273	206
TOTAL--	-	740	388	279	64	1,471	766	343	272
									1,466
<b>SERGIUS AND WHITESTONE NARROWS, ALASKA</b>		NORTHBOUND				SOUTHBOUND			
20 -	-	11	1	3	12	10	1	4	11
17 -	-				3		4		4
16 -	-	112	6	5	123	108	10	12	130
15 -	-	70	29	16	106	67	26	12	105
14 -	-		53	2	47		68	8	81
13 -	-		13	3	20		14	1	11
12 -	-		45	4	49		53	3	15
11 -	-		1		2		1	1	7
10 -	-		4	4	11		6	125	6
9 -	-	2	84	1	95	2	83	1	95
8 -	-	19	26	16	56	38	25	1	67
7 -	-		1	22	25		8	3	11
6 -	-		1	5	10		9		13
5 -	-			13	13		8		8
4 -	-	26		5	34		7		7
3 -	-			1	1	7		2	9
2 -	-			133	3	136	10		11
TOTAL--	-	237	256	197	63	753	242	291	195
									793
<b>SKAGWAY HARBOR, ALASKA</b>		INBOUND				OUTBOUND			
34 -	-	1			1	1			1
29 -	-	7			7	8			8
28 -	-	22			22	22			22
27 -	-				14	14			14
26 -	-	14			7	8			8
25 -	-	7			22	20			20
23 -	-	22			19	19			19
22 -	-	19			17	19			19
21 -	-	17			4	2			2
20 -	-	4			48	68			68
19 -	-	68			25	27			27
18 -	-	25			15	14			14
17 -	-	15			4	4			4
16 -	-	95	2		97	95	2		97
15 -	-	318	15		333	321	17		338
14 -	-	12	5	1	20	12	5	1	19
13 -	-	2			2		2		2
12 AND LESS--	-	31	27	13	71	32	19	12	5
TOTAL--	-	677	51	14	6	748	682	45	13
									746
<b>VALDEZ HARBOR, ALASKA</b>		INBOUND				OUTBOUND			
77 -	-				2		1		1
74 -	-	2			1	2			2
73 -	-	1			1	1			1
72 -	-	11			11		11		11
71 -	-	1			1	27			27
70 -	-	1			1	11			11
69 -	-				1	1			1
68 -	-	10			10	10			10
67 -	-	3			3	7			7
66 -	-	2			2	6			6
65 -	-	1			1	8			8
64 -	-				1	1			1
62 -	-				1	1			1
61 -	-	1			1	3			3
60 -	-	12			12	60			60
59 -	-	10		1	11	52			53
58 -	-	2			2		27		27
57 -	-	10			10	40			40
56 -	-	2			2	25			25
55 -	-	11			11	30			30
54 -	-	4			4	30			30
53 -	-	1			1	32			32
52 -	-	5			5	38			38
51 -	-	5			5	53			53
50 -	-	1			1	2			2
49 -	-	1			1	1			1
48 -	-	5			5	18			18
47 -	-	2			2	7			7
46 -	-	1			1	1			1
45 -	-	6			6	10			10
44 -	-	9			9	90			90
43 -	-	1			1	43			43
42 -	-	5			5	23			23
41 -	-	32			32	44			44
40 -	-	23			23	53			53
39 -	-	11			11	11			11
38 -	-	9			9	6			6
37 -	-	21			21	22			22

**\* FAILURES OF ESTIC FISHING CRAFT.**

## Waterborne Commerce of the United States, 1986

ALASKA DISTRICT  
TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY	DIRECTION						DIRECTION							
	SELF PROPELLED VESSELS			NON SELF PROPELLED VESSELS			TOTAL	SELF PROPELLED VESSELS			NON SELF PROPELLED VESSELS			
	PASSENGER AND DRY CARGO	TANKER	TOWBOAT TUGBOAT	DRY CARGO	TANKER	TOWBOAT TUGBOAT		PASSENGER AND DRY CARGO	TANKER	TOWBOAT TUGBOAT	DRY CARGO	TANKER	TOWBOAT TUGBOAT	
VALDEZ HARBOR, ALASKA--(CONTINUED)							INBOUND						OUTBOUND	
36 - - - - -		23						23		19				19
35 - - - - -		25						25		11				11
34 - - - - -		20						20		15				15
33 - - - - -		32						32		9				9
32 - - - - -		35						35		1				1
31 - - - - -		50						40		1				1
30 - - - - -		48						48		7				7
29 - - - - -	4	29						33	2	10				12
28 - - - - -	7	42						49	9	3				12
27 - - - - -	15	49						49	14	1				15
26 - - - - -		58						58	1					1
25 - - - - -		40						40						
24 - - - - -		34						34		1				1
23 - - - - -	1	9						10						1
22 - - - - -		10						10	1					1
21 - - - - -		9						9						
20 - - - - -		32						32		3				3
19 - - - - -		3						3						
18 - - - - -		15						23						10
17 - - - - -		22	2					20						
16 - - - - -		4	4	2				10						8
15 - - - - -	59	10	13	3				45	61					74
14 - - - - -		15	9	1	1			26						11
13 - - - - -	309	1	6	11	2			329	310					327
12 AND LESS- - - - -	1	61	13	19	2			96	1					42
TOTAL- - - - -	396	898	47	45	5		1,391	399	898	47	48	5	1,397	
SEWARD HARBOR, ALASKA							INBOUND						OUTBOUND	
31 - - - - -		1						1	10					10
30 - - - - -		22						22	1					1
28 - - - - -		22						22	1					1
27 - - - - -		3						3	1					1
26 - - - - -		1						1	1					1
25 - - - - -		6						6	1					1
24 - - - - -		2						2	1					1
23 - - - - -		3						3	3					3
22 - - - - -		3						3	1					1
21 - - - - -		3						3	5					5
20 - - - - -		5						5	6					6
19 - - - - -		4						4	5					5
18 - - - - -		6		14	3			23	3					20
17 - - - - -		3		3	1			3	2					4
16 - - - - -		1		3	1			6	5					5
15 - - - - -	107	3	1	1	1			112	108					112
14 - - - - -		6		1	1			10	6					7
13 - - - - -		8		1	1			10	6					4
12 - - - - -		7		12	1			14	2					12
11 - - - - -		2		1				2	2					3
10 - - - - -		1						1	1					1
8 - - - - -		1						1	1					1
7 - - - - -		1						1	2					1
6 - - - - -		2						2	1					1
5 - - - - -		1						1	1					1
4 - - - - -		1						1	2					2
3 - - - - -		1						1	2					2
2 - - - - -		1						1	1					2
TOTAL- - - - -	176	37	10	4	227		175	39	10	3	227			
ANCHORAGE, ALASKA							INBOUND						OUTBOUND	
35 - - - - -		1						1	1	1				2
34 - - - - -		3						3	1					1
33 - - - - -		11	5					16	1					2
32 - - - - -		20	11					31	5	2				7
31 - - - - -		24	11					35	8	5				13
30 - - - - -		13	6					19	13	5				18
29 - - - - -	107	2	1					109	20	10				30
28 - - - - -	8	1						9	116	10				126
27 - - - - -	2							2	10	1				11
26 - - - - -	1							1	3	1				4
25 - - - - -		4						4	3	1				3
24 - - - - -		1						1	1	1				2
23 - - - - -		2						2	1					1
22 - - - - -		1						1	3	1				2
21 - - - - -		1						1	3	1				1
20 - - - - -		6		12				16	2					14
19 - - - - -		9		1				9	10					11
18 - - - - -		1		6	1			8	3					8
17 - - - - -		1		1	1			1	3					2
16 - - - - -		1		11	2			14	2					11
15 - - - - -		1		6	3			10	3					10
14 - - - - -		3	1	9	3	1		17	4					22
13 - - - - -		1		3	13			17	4					5
12 AND LESS- - - - -	6		13	15	6			36	10	2				49
TOTAL- - - - -	220	40	62	41	8		371	220	40	63	40	8		371
BETHEL HARBOR, ALASKA							INBOUND						OUTBOUND	
TOTAL, 15 AND LESS - - - - -	43	15	53	50	57		297	43	15	52	50	57		225

\* EXCLUDES DOMESTIC FISHING CRAFT.

## ALASKA DISTRICT

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## TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY	DIRECTION						DIRECTION							
	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS			TOTAL	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS			TOTAL
	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	DRY CARGO	TANKER		
CORDOVA HARBOR, ALASKA TOTAL, 18 AND LESS - - - - -	223		43	22	11	209	223		43		OUTBOUND 22 10		298	
CRAIG HARBOR, ALASKA TOTAL, 13 AND LESS - - - - -	17		9	13		19	16		11		OUTBOUND 13		60	
DILLINGHAM HARBOR, ALASKA TOTAL, 8 AND LESS - - - - -			34	27	10	71			34		OUTBOUND 29 9		71	
DOUGLAS HARBOR, ALASKA TOTAL, 13 AND LESS - - - - -			12	12		14			16		OUTBOUND 3		19	
DRY PASS, ALASKA TOTAL, 10 AND LESS - - - - -			5	5		5			5		OUTBOUND		5	
EGEGIK RIVER, ALASKA TOTAL, 18 AND LESS - - - - -	1		6	6		7	1		6		OUTBOUND 2		7	
ELFIN COVE HARBOR, ALASKA TOTAL, 9 AND LESS - - - - -			3	3		6			3		OUTBOUND 2		5	
GASTINEAU CHANNEL, ALASKA TOTAL, 30 AND LESS - - - - -	1,327		253	124	25	1,729	1,323		260		OUTBOUND 125 24		1,732	
HOMER, ALASKA TOTAL, 28 AND LESS - - - - -	204	0	18	10	1	202	203	0	19		OUTBOUND 12 1		204	
HOONAH HARBOR, ALASKA TOTAL, 20 AND LESS - - - - -	374		57	23	11	465	377		57		OUTBOUND 23 11		468	
HUMBOLDT HARBOR, ALASKA TOTAL, 18 AND LESS - - - - -	98		8	9		115	99		10		OUTBOUND 10		119	
JUNEAU HARBOR, ALASKA TOTAL, 29 AND LESS - - - - -	1,327		267	127	25	1,786	1,323		273		OUTBOUND 128 24		1,788	
KING COVE LAGOON, ALASKA TOTAL, 15 AND LESS - - - - -	86		13	16	2	117	87		11		OUTBOUND 16 2		116	
KODIAK HARBOR, ALASKA TOTAL, 32 AND LESS - - - - -	252	23	200	52	26	553	253	23	197		OUTBOUND 93 26		552	
METLAKATLA HARBOR, ALASKA TOTAL, 21 AND LESS - - - - -	507		119	126	11	803	587		119		OUTBOUND 127 10		803	
NAKnek RIVER, ALASKA TOTAL, 16 AND LESS - - - - -	5		42	25	15	87	5		42		OUTBOUND 23 16		86	
NINILCHIK HARBOR, ALASKA	NO VESSEL TRIPS REPORTED													
VENE, ALASKA TOTAL, 18 AND LESS - - - - -	4		157	65	83	289	3		156		OUTBOUND 66 64		289	
OLD HARBOR, ALASKA TOTAL, 15 AND LESS - - - - -	21		8	3		28	21		2		OUTBOUND 3		26	
PELICAN HARBOR, ALASKA TOTAL, 12 AND LESS - - - - -	56		6	17		79	56		6		OUTBOUND 15		77	
PETERSBURG HARBOR, ALASKA TOTAL, 20 AND LESS - - - - -	893		222	137	24	1,276	893		222		OUTBOUND 130 25		1,278	
PORT ALEXANDER, ALASKA TOTAL, 9 AND LESS - - - - -			2	1		2			2		OUTBOUND		2	
SELDONIA HARBOR, ALASKA TOTAL, 17 AND LESS - - - - -	94		17	1	9	121	94		15		OUTBOUND 1 8		118	
STIKINE RIVER, ALASKA TOTAL, 5 AND LESS - - - - -			36	33		69			36		OUTBOUND 33		69	

\* EXCLUDES DOMESTIC FISHING CRAFT.

## *Waterborne Commerce of the United States, 1986*

**ALASKA DISTRICT**  
**TRIPS AND DRAFTS OF VESSELS**

HARBOR OR WATERWAY			DIRECTION			DIRECTION								
DRAFT (FEET)	SELF PROPELLED VESSELS			NON SELF PROPELLED VESSELS			TOTAL	SELF PROPELLED VESSELS			NON SELF PROPELLED VESSELS			TOTAL
	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER			PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER		
UNALASKA BAY AND ISLAND, ALASKA TOTAL, 29 AND LESS - - - - -	466	7	1,304	22	49	1,888	465	6	1,314	21	46	1,852		
CHATHAM STRAIT, ALASKA TOTAL, 32 AND LESS - - - - -	2,229		363	256	116	2,966	1,124		383	294	96	1,897		
CLARENCE STRAIT, ALASKA TOTAL, 30 AND LESS - - - - -	1,212		535	253	51	2,051	1,211		535	253	52	2,051		
FREDERICK SOUND, ALASKA TOTAL, 32 AND LESS - - - - -	1,078		528	326	101	2,031	1,078		528	324	101	2,031		
ICY STRAIT, ALASKA TOTAL, 34 AND LESS - - - - -	2,766		135	76	44	3,021	2,766		136	76	43	3,021		
LYNN CANAL, ALASKA TOTAL, 36 AND LESS - - - - -	2,373		176	98	19	2,666	2,373		179	99	19	2,670		
NIKISHKA, ALASKA TOTAL, 40 AND LESS - - - - -	206	136	108	45	67	562	210	128	112	50	52	552		
PERIL STRAIT, ALASKA TOTAL, 20 AND LESS - - - - -	43		342	191	64	680	41		365	195	64	668		
PRINCE WALE'S IS., WEST SIDE, ALASKA TOTAL, 16 AND LESS - - - - -	56		171	66	38	327	56		171	66	38	327		
REVILLAGIGADO CHANNEL, ALASKA TOTAL, 35 AND LESS - - - - -	2,532	8	332	158	64	3,004	2,531	8	332	158	64	3,003		
STEPHENS PASSAGE, ALASKA TOTAL, 30 AND LESS - - - - -	2,396		330	190	39	2,955	327		285	98	27	733		
SUMNER STRAIT, ALASKA TOTAL, 36 AND LESS - - - - -	1,709		744	522	116	3,091	1,709		744	524	116	3,093		
TONGASS NARROWS, ALASKA TOTAL, 35 AND LESS - - - - -	2,564	8	827	470	102	3,975	2,561	8	827	477	101	3,974		

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